SL-II MC-414/1
Time: 06:16 CDT
6/2/73

PAO This is Skylab Control; 11:15.
CC And Happy Birthday, Pete.
SC Oh, you remembered.
CC Aren't we sweet.
SC Bouncing 43 yearold this morning.
CC Yeah, we're getting so much feedback through that SIA, I can't really read you right now. We'll have you again at Goldstone at 11:54. I got about 30 seconds more here.
CC Skylab, Houston. We're indicating that your caution and warning number one system and emergency system number one is powered off right now. Did you guys power it off?
SC That's affirm. That's the housekeeping 70 Bravo, or whatever it is.
CC You guys are really up early and going at it.
SC Well we, uh, passed over western Europe this morning (garble).
SC Houston, Skylab.
SCC Okay. We finally eliminated the feedback. It's all the way between the wardroom and the dome speaker boxes, would you believe.
CC Roger. It sounds much better.
PAO This is Skylab Control; 11:19 Greenwich mean time. Lose of signal, very brief. Pass along the southern edge of the Carnarvon acquisition range. Although the Hoar station passes along the southern segment of Honeysuckle, that station, Honeysuckle, Australia, is not up for this particular orbit, number 271, Skylab Space Station. Next acquisition in 34 minutes at Goldstone. Near Barstow, California. Currently the tracking data on the electrical power system from the Carnarvon site shows that the average state of charge on the batteries is 99.2 percent of total capacity. Battery charger regulator modules CBRMs 3 and 15 still off line, as yesterday. Crew was awake at the Carnarvon pass, and called by Cap Com Bob Crippen, with a brief Happy Birthday greeting to Pete Conrad. 32 minutes now to acquisition for a stateside pass starting at Goldstone. And at 11:21 Greenwich mean time, Skylab Control.

END OF TAPE

SL-II MC-415/1
Time: 06:53 CDT
6/2/73

PAO This is Skylab Control at 11:53 Greenwich mean time. Less than a minute away from acquisition at Goldstone Tracking Station. Stateside pass sweeping from Baja California, up through Newfoundland and Nova Scotia, into the North Atlantic. Revolution 271. The crew initial contact was made over Carnarvon this morning, slightly after 6 a.m. central time. Standing by on air-ground. Skylab Control.

CC Skylab, Houston. We're AOS over the States for the next 17 minutes, for the next 17 minutes.

SC Roger, Houston. And, Houston; CDR.

CC Go, CDR.

SC Okay, last night I said that I wasn't sure I asked them to drop M151 off of S183, because we hadn't configured it. We got up a little early this morning, and I've been working that problem. I won't guarantee that I'll get it done, but I got it in work. I got it half done.

CC Roger. I imagine you'll make some 151 people very happy if you did.

SC Houston, CDR.

CC Go, CDR.

SC I thank you for passing on the birthday greetings. I didn't respond. I was working a problem in waste management compartment at the time.

CC Roger. Still trying to work up somebody that can sing "Happy Birthday" to you.

SC No need. I've gotten to the point where I should be 39 and holding and forgetting it.

CC Roger. By the way, we had an opportunity to review the TV tape of you guys running around the dome lockers last night. That's quite a show you put on.

SC We catch on pretty fast up here.

SC Hey, Crip.

CC Go, Paul.

SC What's the status on our OWS plus 1 roll indication? Are they still working it?

CC Yeah, they're still looking at it. They haven't come up with any bright ideas here yet. Let me see if I can come up with something local with you.

SC Okay. I got another request for them.

CC Go.

SC That thing that was sent up yesterday on the new housekeeping 70 series - Send it again, will you please? I want to cut it out and paste it up on the STS panel.

CC Roger. You'd like the entire 70 Alpha and Bravo again?

SC Yeah, I don't need the correlation matrix on the front of that. Just the thing that - yes, but still the way you do.

CC Roger.

SC And I don't have a message number, Crip. When I put it in the book, I trimmed it as neatly as I could so that - -

CC Yeah, we have it here. No sweat.
CC PLT, Houston. Regarding the power problem you had last night, we're still looking at it; and we'd like to keep the circuit breakers in their current configuration.
SC Okay.
SC Houston, SPT.
CC Go, SPT.
SC I'm looking at my M074 electronic module procedures, and it tells me all about how to change it out. And it doesn't tell me which one to change. I guess what you want me to do is take the one in the wardroom and put it in the head. Is that right?
CC That's affirm. SPT, what they're trying to do is - on one place there, they have you disconnect it and connect it back up. And that's just to check out the one in the head.
SC Okay.
CC Skylab, Houston. We were a little bit late sending up the odds and ends message this morning. It came up about half an hour ago. I'd like to verify that you did get it. And we will probably be having to send you a setup for the M151, if you are planning on doing it today. And we're getting that ready.
SC Say again, Crip.
CC I'd like to verify that you did get the odds and ends message. It came up with the last one to come up. It came up about a half an hour ago. It's a little bit later than the rest. And, in addition to that, if you are going to be doing the M151 associated with 183 today, we're going to be - have to up-link you another pad for that, and we're getting it ready now.
SC No you don't. You asked me what got me going early this morning. I got an M151, S183 message after I asked the ground last night to cancel it. And seeing we were up early, it told me what DAC to use, which is what which is the activation checklist, which we didn't do because we were told not to do it - bla, bla, bla. Anyhow, I get it in work. You don't need to send me anything.
CC Okay.

END OF TAPE

SL-1 MC416/1
Time: 07:05 CDT
6/2/73

CC Skylab, Houston. We're 1 minute until LOS. We'll see you again over Madrid at 12:16, 12:16.
PAO This is Skylab Control, 12:12 Greenwich mean time. About 2 minutes 50 seconds across to Madrid. Canary Island overlaping passes. We'll leave the circuit up across that gap in the North Atlantic. At 12:13 Greenwich mean time, Skylab Control.
CC Skylab, Houston. We're AOS over Madrid for the next 9 minutes.
SC Hey, Houston, CDR on that odds and ends message. That heater circuit breaker is in fact OPEN.
CC Understand the circuit breaker is open.
SC That's right.
CC Thank you.
SC You know Crip, we're not sure any of these switches; any of these switch breakers on the STS panel. There's always a potential for inadvertently opening those darn things, and I was thinking about that last night, and we probably ought to pass on to the 487 people. I guess I'll put it on B channel. But if you got exposed breaker panels with the switch breakers on, you got to cover them. The guard is not enough. You got to flat cover them with something.
CC Roger. Do you think there's a chance that you might accidently pop that one open?
SC That's what - That's my message really. Any breaker on panel 200, 201 or 202, always has a potential for having been inadvertently opened by one of three or four people up here.
CC Okay, Paul. We copy, thank you.
SC May I add: We've been running with the lights out up there a lot and I've made a lot of trips to the command module yesterday, plus changing that tape recorder paper and around there and it's very easy - you get to hanging on with one hand, you get floating around on the (garble) to get in there and knock something off and you'd never know it.
CC Okay. We copy.
SC Ask EGIL, I already (garble) integrated to zero for them that way.
CC Skylab, Houston. We just sent you one more pad and it was one concerning that M151 and 183 we were talking about earlier. And what it is is changing of the lighting slightly, to handle reduce lighting power due to the powerdown considerations we got.

END OF TAPE

SL-1 MC 417/1
Time: 07:20 CDT
6/2/73

CC Skylab, Houston. We're one minute to LOS. We'll see you again over Honeysuckle at 13:02. 1, 3, 0, 2.

SC Roger.

PAO This is Skylab Control; 12:26 Greenwich mean time. Loss of signal through the Madrid tracking station. Honeysuckle, which was inactive on the last revolution, will be up in 35 minutes. On this 272nd revolution, for the Skylab Space Station. Battery condition now 69 percent of total available charge. State of charge is the way it's shown. Let's dredge up some orbital numbers here. Well, would you believe that the display will not show orbital numbers at this time, because the computer's loaded up too far. So we'll wait a while on that set of numbers. 34 minutes to Honeysuckle, 12:27 Greenwich mean time. Skylab Control.

END OF TAPE

SL-II MC418/1
Time: 08:00 CDT
6/2/73

PAO This is Skylab Control, 1300 Greenwich mean time. About 1 minute from acquisition at the Honeysuckle tracking station. We're looking at a change of shift press briefing in the Houston News Room with Flight Director, Milt Windler, at 8:45 a.m. Central daylight time, as soon as he comes out of the morning management meeting. 8:45 with Milt Windler, off coming Flight Director. About 30 seconds to acquisition Honeysuckle. Skylab Control standing by.

CC Skylab, Houston. AOS for 6 minutes. And Skylab, we'll be dumping the tape recorder on this pass, also at Hawaii.

SC Okay, Houston.

SC Are you there, Houston?

CC Go Skylab.

SC Hey, just for information, I just looked in the food chiller in preparation for systems housekeeping 3 BRAVO 1 and much to my surprise there is narry a speck of moisture visible in there.

CC We copy. It makes everyone happy.

SC Yeah. Unfortunately the freezers aren't doing as well. We got a fairly good frost buildup around the seal line on the freezer doors. Frost and ice.

CC Copy that.

SC Hey, also Bill, I see on that teleprinter they wanted to finish the conversation I was having with you yesterday when the fire alarm went off. What I can tell you about the doors is only that - In discussions before, I mentioned compression walking and about access panels and walls as it were. And some people opted for large round holes because you would be moving about head first. Well it's not so and, I don't know, I still feel there's a fair amount of the - the carry over of 1G training in your attitude in here. But we finally translate from place to place essentially in an erect position; erect or semi-sitting. The doors are - are really just what you want, even in Zero G.

CC Copy that. The 1G carry over works pretty well in Zero G.

SC Yep. Yeah, you don't go head first. You push off and if it's convenient you go head first; if it's convenient, you go feet first but most of the time we just move forward or laterally.

CC Copy that. Thank you, Paul.

SC (garble)

SC Houston be advised that I got to have 151 set up between the high intensity lights so we'll have

that on 183 today.

CC Copy that, Pete.

SC You all owe me one. I got up 10 minutes early.

CC (laughter) Copy again, Pete.

SC Okay, Bill. On Monday's 08, 09, Foxtrot from yesterday with some questions and question number 3 referred to S052 which I'll answer if everybody's ready.

CC We're standing by Paul. Go.

SC Okay, the answer to sub question 1 is no. To 2 is a short period - to allow for a short period. The only mode I noticed it in, I never noticed it in continuous. I noticed it a couple of times in stabdard and I would have to guess that it went on maybe two times in each sequence. As I mentioned before, I did not correlate it going out with frame counter (garble). I also watched - I ran another building JOP 6 the other night. And I watched over Pete's shoulder while he did something on the coronagraph and I have not observed this operate light going out since I reported it about 3 days ago.

CC We copy that, Paul. And we're going LOS here. And we will see you at Hawaii at 13:22.

PAO This is Skylab Control; LOS Honeysuckle. 13 minutes to Hawaii. And at 13:09 Greenwich mean time - stand by one here. During this Honeysuckle pass the environmental and electrical engineer who's known in the by the call sign EGIL, E-G-I-L, said that the space station power load currently stood at around 3600 watts. Current stage in the state of charge on the battery charger modules 90 percent. The temperatures tend to range in the mid to high 70's in the space station. Later in the morning we'll have an estimate on the average internal ambient temperature of the space station. And, currently, space station Skylab's orbit is 232.4 nautical miles at Perigee, 240.7 nautical miles at Apogee. Period remaining fairly constant at 1 hour 33 minutes 18 seconds. At 13:10 Greenwich mean time 11 minutes from Hawaii acquisition, Skylab Control.

END OF TAPE

SL-II MC-419/1
Time: 08:20 CDT
6/2/73

PAO (First part not recorded) 1 Greenwich mean time. Skylab space station will be coming over the hill in less than a minute, directly south of the Hawaii Station. Fairly low elevation angle on this first pass of the morning at Hawaii.

CC Skylab, Houston. AOS 7 minutes.

SC Roger, Houston. And everybody is about on their time line.

CC Copy.

CC Skylab, Houston. AOS in 1 minute - correction, LOS in 1 minute. AOS - Goldstone: 13:30. We appreciate very much your helping out on the power management with turning out lights and such the other day. And, if possible, we'd like to keep that up through the day. At the moment, if today is like the last operational day, we'll be in acceptable shape at the end of it, with not much despair.

SC Roger that.

SC Houston, we're probably going to use more today. You know we're running M151, and we've got all the other experiment lights on, plus the high intensity light.

CC We copy that, Pete.

END OF TAPE

SL-II MC-420/1
Time: 08:29 CDT
6/2/73

CC Skylab, Houston. AOS for 14 minutes with keyhole.
SC Roger.
SC Houston, SPT.
CC Go, Houston.
SC We have a couple questions/comments for you.
CC Go ahead.
SC Okay. Number one, we are generating as we go through the days, uh, a number of cans of unused food and unopened food. We'd like, and there's no hurry on this, we'd like to know whether we should throw away this food, or whether we should can it up, put it in a convenient location and for the follow-on crews to use as overage?
CC We copy, Joe. I assume that food is not bulged or any way abnormal?
SC It's normal food that we just haven't eaten.
CC Copy. We'll get you an answer.
SC Okay. The second, this is a comment that I put on channel B a couple of days ago, and apparently it didn't get through. We'd like to propose that we don't anymore voice record on channel B: The M131 results, spacial authorization testing, M074, M172 cals; but rather than - since we have to log that data by hand anyway, that we bring the logs back. Logging on voice, is time consuming and it's been quite unsatisfactory. And that's the principal reason for this recommendation.
CC We copy that, Joe.
SC Okay. The last thing I'd like to ask on the two maneuver pads today, particularly the Y-rate gyro maneuver. Whether I should inhibit star tracker update of orbital plane error, before I go to those special stars, which I don't know what they are?
CC Okay. We'll get you an answer.
SC Thank you.
CC And, Joe, thank you very much for the work on 172, that looks as if we finally got a good cal on that. Certainly appreciate that.
SC My pleasure.
CC We've - there's still questions on clothes and such, before we can get usable data.
SC Roger. We noticed that our weights as they were sent up by the medical pads this morning, were quite a bit higher than our onboard cal curve indicated to us. Are you guys using a fudge factor?

SL-II MC-420/2
Time: 08:29 CDT
6/2/73

CC Joe, I've had nothing to do with that weight. I don't know where it's coming from or anything else.

SC Okay. I would be interesting, in the next few days, if the medical people could give me a correction to our cal curve, or tell us whether it's any good or not. Our onboard curve.

CC Joe, since I have you, could you tell me what you're wearing in the morning. Are you wearing the triangle shoes, we, this is the last big thing we need?

SC Okay. Weitz is wearing the triangle shoes and he's doing it every morning as a standard thing. Conrad and I are not wearing the triangle shoes. We're wearing our soft shirts and our trousers and socks.

CC I assume also underwear and is this with the long pants or short pants, Joe?

SC It's with (laugh) pants. This morning it was with long pants for me, the previous morning it was with short pants. Sorry about that, but it's taking me that long to climatize.

CC We copy that, and thank you very much, Joe, and we'll get you some good data up.

SC Houston, SPT.

CC Go, SPT.

SC Just a comment, I'm observing the white light coronagraph on TV, and I noticed a stream of particles go by just as the mol sieve cycled. I suspect that you can see (garble) outgassing on that, and the PI might want to know that.

CC Thank you, Joe. Also be advised we're powering up the Y2 gyro, prepatory to the Y-rate gyro scale factor maneuver.

SC Roger.

CC SPT, the computer inhibits that star tracker, so you don't have to bother.

SC Okay, my mistake.

SC Hey, Bill, unless it's escaped me, I can't find, in either the S183 pad or the fill pads for the F183, what DAC they wanted used on the S183 itself. I got the magazine that they wanted to use, but not the DAC. Unless I hear from you I'm just going to grab one out of the drawer.

CC Okay, Pete, we'll try and get you a quick one.

END OF TAPE

SL-II MC421/1
Time: 08:41 CDT
6/2/73

PAO This is Skylab Control. A brief gap between stations across the states now. We'll shut down the circuit after Bermuda LOS for the change of shift press conference which begins at about 8:45 in the Houston News Room. We'll record the Madrid, Canary pass for delayed playback. Standing by for the resumption and remainde of the stateside pass, 13:42, this is Skylab Control.

SC Houston, SPT.

CC Go, SPT.

SC I have a comment and a question regarding S052. We may have reported this to you before because Paul has seen it. When you're in the TB position and you close the doors on S052 it looks terrible. It looks as if you're looking at burning celluloid film. I don't know whether this is reflections into the camera or - or what the problem is, but that's what it looks like, as if a lot white light was getting around the (grable) disc at the moment the door's closing, that's the comment. The question is this: When you are - when you have the 52 doors open and then you roll, even though you are cert-centered you never stay within 20 odd seconds of the center, and you always run your ready lights. My question is, would the PI like us to close the doors whenever we roll and then reopen them?

CC Hey Pete, and while you're thinking that over I made a rapid like decision on using DAC 04 because I'm getting behind (garble)

CC Okay, Pete we're slow on that. It was on pad 907, DAC 03 at f/3 but - -

SC That's M151. I said specifically the DAC that goes on the S183, I got the 151 DAC 03 stuff done. There's two DACs involved, one on the experiment and one on the M151 photo.

CC We copy, Pete.

CC SPT, Houston.

SC Go ahead.

CC If you could give us a time mark when S009 opens; this should be approximately 13:57:05.

SC Okay, if I hear it I'll give you a hack.

CC Right, no big deal. And if it's already open, let us know. And if you should miss it, don't go to a lot of trouble. But if you should miss it, we'll try to get on a later pass.

SC Roger.

CC SPT, Houston. We'd like for you to leave the door open when you are rolling, even though the light come on, and apparently they expected this phenomena that you see with the light from the doors.

SC Okay. Thank you. Boy, I sure wish they had told us that. It scared the b-jabbers out of me the other day. And if it makes any difference to them, the PLT has been closing that S052 doors prior to rolling. But I won't do that anymore.

CC We copy that, PLT. And, PLT, there's no problem in that.

SC Yeah, that's just for information.

CC We'll be LOS in 1 minute; AOS Canary at 13:52.

SC Roger.

PAO This is Skylab Control; 13:49 Greenwich mean time. Three minutes or so to the Carnary Island Tracking Station. The change-of-shift press conference is scheduled to begin momentarily in the Houston News Center briefing room, with Flight Director Milton Windler. We'll record the Canary Madrid pass for delayed play back at the conclusion of the press conference. At 13:50 Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC422/1
Time: 09:35 CDT
6/2/73

PAO This is Skylab Control; 14:35 Greenwich mean time, 1-1/2 minutes out of Honeysuckle tracking station. We have some 25 whole seconds of air to ground taped over Canary and Madrid during the Change of Shift Press Conference which we'll play back at this time and resume live over Honeysuckle.

CC Skylab, Houston. We'll be dumping tape recorders at Honeysuckle; 14:38.

CC Skylab, LOS in 1 minute. Honeysuckle AOS 14:37.

PAO That completes playback of the tape. We'll stand by for Honeysuckle live.

SC Hello, Houston. You there?

CC We're standing by.

SC Okay, SPT is doing his Y axis and I'm ready to do the CBRM malf thing if you're ready.

CC We're ready.

SC Okay.

SC Houston, mark the beginning of the first maneuver.

CC Copy.

SC Okay, on the CBRM - I had to do it twice because I forgot to power up the status light the first time. What happens when you turn the REG off is the light comes on, when you turn it back on the light goes off. However, the meter indications do not change. And the REG volt talkback stays barberpole. The voltage stays at 22.5 and the current stays at 1.5.

CC We copy.

SC I'm going to finish up now by turning that charger off.

CC Copy.

SC Houston, SPT, did you want TV at this time?

CC Stand by half.

CC That is affirmative SPT.

SC I'm a little confused by it. Apparently you want the XUV mark with the doors closed - well that's what you've got.

CC That's affirmative, Joe.

SC Are you happy with it?

CC Joe, we can't see it from this point. We'll be seeing it shortly.

SC Okay, I can't see a thing myself.

CC Copy.

SC Okay when the charger is turned off the charger lights - charger number 3 light comes on - all other indications remain the same.

CC We copy.
SC I'm going to turn the charger back on and that's the end of my procedure.
CC PLT, Houston. Which voltage was that that you gave us?
SC Just hang loose, he'll be with you in a minute.
SC That's the voltage on the meter. I had REGS selected so therefore - and I read off the volt scale so it must have been REG volts.
CC Copy.
CC Paul, the procedure called for REG BUS and battery voltage.
SC Okay, Houston. We're completing the first maneuver and I'm about to start the second one.
CC Copy that.
SC We have time to do that CBRM procedure over again. When I read it I assumed you meant because the meter was time sheared up and you were calling it. I'll do it again and give you all three values.
CC Thank you, sir.
SC Okay, Houston, CDR.
CC Go, CDR.
CDR I've been meaning to make this comment for a long time for the other cr - when you're down in the wardroom sleep station experiment and the TACS is firing as it's doing now - depending on which one it is and it sounds like shotguns going off outside. The closer ones to you, of course, are louder but it's a very distinct whomp, whomp, whomp, everytime one of them goes off.
CC We copied that, Pete, and we're passing it on - we've also passed it on previously.
SC And Houston, SPT. On my VTR recording last Sunside pass I gave you some shots of the coronagraph with the door closing for the training people.
CC Thank you, SPT.
SC Okay, I've got it, Bill. Are you ready to copy the numbers?
CC That's affirm, Paul.
SC Okay the status light indicates as I - or as I reported before. Now what I didn't notice the first time I did it was that when I turned the REG off, well that figures I guess, when I turned the REG off the REG volts talkback went gray. When I turned the REG back on the talkback went barberpole. The voltage is - the regulator was 22.5, the VOX was 28.2, the battery was 34, regulator current was plus 5, battery was minus 1.
CC We copy and thank you, Paul.

SL-II MC422/3
Time: 09:35 CDT
6/2/73

SC Okay, I'm sorry I misread that the first time.
CC No problem.
SC Houston, SPT - if you could - Have we got time left to do the high voltage aluminum and beryllium throwup?
CC 214:58 over Hawaii if you read.
SC Okay.

END OF TAPE

SL-II MC423/1
Time: 09:48 CDT
6/2/73

PAO This is Skylab Control. We've had loss of signal through the Honeysuckle station; 10 minutes to Hawaii. Later in the day we have the second run of the data gathering for the earth resources experiment package starting at about 18:30 Zulu, actually at about 17:45. It looks like the preparation has begun. This will be a track down the edge of - through the central portion that is of California, coming ashore just north of San Francisco, going down through the San Joaquin and Imperial Valleys, past the Salton Sea and the track continues on down the western coast of Mexico. There are some 36 task and site combinations involved in this pass today. Among the tasks, some of them are technical and others are more in the nature of actual data on a specific geographic location and quite a few of these are directed at developmental efforts in the technology of remote sensing and photography. For example, determining the spacecraft instrumentation sensitivities over various types of terrain to sort out just how sensitive for example the radiometer data is and how it's affected by cloudy or rainy areas in regards to contrast, or reduction of contrast. The S193 radar altimeter will be directed toward identifying terrain characteristics from space which - information from which will be used for satellite remote sensing technology development or topographic and surface properties namely wetness, growth of vegetation, and distribution of snow. Many of these 36 task site combinations involve agricultural resources and land use. Again in the technological development area one of the tasks that have been set up involves developing uniform cartography, nomenclature and symbology for classification of natural resources and they're using rice and range lands as examples in today's runs. Still another agricultural task involves areas - identifying areas in Mexico where crops should be irrigated. Still in Mexico another one has to do with exploration where metals and mining - metallurgy - possible locations for mining operations in Mexico. Going on down the list of basic tasks - volcanic activity and thermal patterns, faults in the southern California region, develop the means for detecting active and inactive fault zones through remote sensing and photographic techniques. Among these are geological studies of faults and tectonic lined intersections and the actual crustal structure in the region. Back again in the technological data gathering the high altitude photography effects of the atmosphere in earth resources remote sensing will be one of the basic aims of today's pass which is ground track number 63. The condition of the environment comes under examination, also, today during the EREP pass, gathering data on pollutant concentrations in the California area. Inventory flooded land for mosquito abatement information.

SL-II MCA23/2
Time: 09:48 CDT
6/2/73

Crop damage due to air pollution or disease or insect infestation. Land use in the southern California area and also developing a basis for showing the quality of the environment as detectable from Skylab imagery is among the tasks for today's EREP pass, as well as evaluating these remote sensors for measuring population changes - urban expansion and this sort of thing that involves people. Two of the S191 infrared spectrometer sites that have been specifically de··iled on today's EREP plan are downtown San Francisco and the populated and vegetation area near the Salton Sea in the Imperial Valley in California. These are not - these two sections of the state are not being surveyed specifically today for data gathering but primarily to relate to ground based observations and verifying the airborne - spaceborne performance of this particular instrument, the infrared spectrometer. Well, we've had the warbler now for warning 2 minutes to AOS. Coming up on Hawaii, we'll stay up live after Hawaii LOS bridging across to the next stateside pass. Batteries standing at about 81 percent capacity, state of charge.

END OF TAPE

PAO — Batteries standing at about 81 percent capacity state of charge. We should have acquisition about this time, even though the clock still shows more than one minutes to AOS. I don't have much faith in that clock.

CC — Skylab, Houston. AOS.

SC — Roger, Houston. Are you ready for the X-ray and analyzer power up?

CC — That's affirm, Joe.

SC — Okay. That's (garble) power going on now.

CC — Copy.

SC — Lost my clock back time one.

CC — Copy.

SC — Where we were counting 4960. The aluminum count is 4850. And high voltage power Al coming on now.

CC — Copy.

SC — It's not within 200 counts yet, and I'm going to shut it off unless you tell me otherwise.

CC — After 20 seconds, Joe, turn it off. We're also turning off the rate gyro at this time.

SC — Roger. High voltage Al is off. It looked like it does in the trainer, it was cycling between about 400 or 1000 or 1100.

CC — Copy.

SC — Okay. High voltage power Beryllium is coming on, now.

CC — Leave Beryllium power off, Joe. That's beryllium high voltage off.

SC — Roger. It's back off. Is day-one X-REA power off?

CC — Stand by, Joe.

SC — Joe, it looked good on the ground, so go ahead and turn your aluminum high voltage back on and proceed with the beryillum and leave the XREA on.

SC — Okay, aluminum's back on, beryllium is coming on, now.

CC — Looking good on the ground, Joe.

SC — Roger. It looks good here too, although it's not within the plus or minus 200, I don't think. Shall I leave it on?

CC — That's affirm, Joe.

SC — Okay. I'll take the red tape off the switches.

CC — Copy. And Joe, you're GO to use that.

SC — Thank you.

CC — Also, Joe, you may be getting double sequences on S054, it appears you might have stopped that. Don't be concerned about this if you see this. We see it unattended OPS also.

SL-II MC-424/2
Time: 09:57 CDT
6/2/73

SC I forgot to tell you, I did see it right at the end of the day, it almost made me miss my last building block. Till I realized what was happening.
CC Okay. Don't be concerned about it, just let it go.
SC Bill, it's okay to cut if off in the middle if you have to move on, isn't it?
CC Joe, you can turn it off, if you have to for expediency, otherwise just leave it on.
SC Okay.
SC (Music).
CC From that music, what are you doing, trying to convert Pete on his birthday?
SC Right, that's a little trickery in western SPT style. (Music).
CC Think you'll make it, Pete?
SC He's grimacing from the MO92, we got him trapped in the LBNPD.
CC (Laughter). Copy.
CC The medics have noted unexplained rises in blood pressures.
SC Hey, Houston.
CC Go, Pete.
SC Hey, I think we never answered a question the other day about the prime blood pressure being on the backside of the wedges, the primary one. And we think it is. Now, these I remember having looked at this phenomenon in the simulator, but Joe doesn't and Joe's the expert, which kind of makes us conscious. As I remember from the simulator the procedure that drove the wrong way, you just drove it off the sun till it finally got to the point where it reached minus infinity in an imaginary plane or something, turned around and came back and was operating properly then, but it doesn't. As I say, it appears to me like what I remember would be on the backside of the wedges.
CC We concur with that, and procedure you just read is correct.
SC Okay. When we get a chance we'll try it, all right?
CC Copy, uh, Roger that.
CC Skylab. We're going LOS here in about 30 seconds. We'll see you at Goldstone, about 4 minutes.
SC Roger.
CC Also, SPT. On the S009 opening. The nominal time should be 153015. It may open as much as 15 minutes early or as much as 3 minutes late.

END OF TAPE

SL-II MC425/1
Time: 10:08 CDT
6/2/73

PAO This is Skylab Control. Brief gap between Hawaii and Goldstone. It sounds as though Joe Kerwin is attempting to rehabilitate Pete Conrad's taste in music. Crew at this time getting squared away with the day's activities. The prime activity scheduled during the day will be earth resources package data-take or survey along the California coast - coming ashore just north of San Francisco, down through the San Joaquin and Imperial Valleys, across Baja California and western coast of Mexico. The actual data gathering starts at 3:04 p.m. central daylight time and ends 10 minutes later at 3:14. The data gathering ranges from infrared spectrometry to photographs taken in the multispectral cameras of the geological features along the California coastal region. Urban density, land use in general, technology development on news ways to make maps of how the Earth is being used or misused, as the case may be. Should have AOS at Goldstone at this time. 15:10 standing by. Skylab Control.

CC Skylab, Houston. We're AOS for about 3 minutes.

SC Roger, Houston.

CC SPT, Houston. We're not seeing time mode on 82A. If you haven't started it, we would like for you to start it at this time.

SC How (garble)? All right, Houston, and it says omit 82A, which I did.

CC Copy, SPT.

CC SPT, look opposite 1505. Is it possible you're confusing that with the 1639?

CC We're going LOS in 45 seconds. We'll have you again at 15:20, at Bermuda.

SC Roger, Bill. I copied that time on S009, and at the last cycle I didn't hear it opening, but it closed at 14:19:30.

CC Copy, Joe. And did you get my transmission on the ATM schedule times?

SC No.

CC Okay. Look opposite line 15:02 time. Is it possible you were looking at 16:37?

SC Yeah, you're right.

END OF TAPE

SL-II MC426/1
Time: 10:19 CDT
6/2/73

CC Skylab, Houston. AOS for 10 minutes.
CC Skylab, LOS in a minute. We're - we'll have you at Canary at 15:31.
SC Roger.

END OF TAPE

SL-II MC-A27/1
Time: 10:30 CDT
6/2/73

PAO This is Skylab Control; space station now over the mid Atlantic. Coming up on Canary Island tracking station. With overlapping coverage through Ascension Island, for the next several minutes. We'll stay up for the two stations. At 15:31, standing by. Skylab Control.

CC Skylab, Houston. AOS for 6 minutes.

SC (garble)

SC Houston, SPT.

CC Go, SPT.

SC Okay. Just for the PI's information on 82A. We have to run his experiments strickly on time, even in the auto mode, because we have no free power and no operate light, ready light cycle. It goes from READY to OPERATE and then stays there the rest of the pad. And I'm trying not to cut off any frames.

CC We copy, Joe. Joe, they think that it should stop automatically, so you don't have to worry about it stopping.

SC I'm sure it will stop automatically, but I don't know that. That's the point, so I just have to estimate when I think it's timed out and then move on. And Houston, SPT. On active range at 18, have the PIs seen sunspots in white lights, because on the XUB switch display I don't see any, 10 days ago either.

CC We copy that, and we'll query it.

SC Thank you.

CC Joe, for information, the ground saw only one sunspot yesterday and white light.

SC Okay. I know it's hard to describe these things but I'd be interested to know where it is. There's a filament running right through the middle of this active region. There's new bright plages in the northen or northwest end of that filament, I wonder if that's what they're calling active region 22, and I wonder if that's where the sunspot is?

CC We'll ask. Joe, ground confirms that that was the area that they saw the sunspot in. The northwest end, also active region 22 is no longer visible from the ground.

SC The middle of that was cut out, Bill, would you say again?

CC The ground confirms your location of where they saw the sunspot yesterday. And active region 22 is no longer visible from the ground.

SC Roger. Understand. There's wash there that wasn't there two days ago and there's another little area of bright plage about two-tenths farther out on about the 180 radial axis. I haven't had a chance to look at it close yet, I don't know if it's in an emergent flux region or not.

SL-II MC-427/2
Time: 10:30 CDT
6/2/73

CC Copy.
SC This is all on H-Alpha so they can see it too.

END OF TAPE

SL-II MC428/1
Time: 10:40 CDT
6/2/73

SC (Music: Up With People)
CC I see you've brought Pete's blood pressure back to normal.
SC (Laughter) I have that song in twelve languages, depending what country we're passing over.
CC My problem is I can't understand any of them.
SC Yeah.
SC (Music)
CC SPT, Houston.
SC Go ahead.
CC It's just a reminder we're coming up on the SAA here for the S056.
SC Roger. Thank you.
CC (Garble) here. Carnarvon at 16:10.
SC Roger.
PAO This is Skylab Control; 15:48 Greenwich mean time. Skylab space station has gone over the horizon from Ascension Island Tracking Station, the outset of revolution number 274. Skylab will be coming over the Carnarvon, Australia, horizon, approaching from the west, and will be acquired by the antennas at that station in some 22 minutes. The flight surgeon commented that the ground indications during the last Canary and Ascension pass were that the M092 inflight lower body negative pressure and M093 electrocardiogram runs were going quite well and on schedule, according to the Flight Plan for today. The commander, Pete Conrad, and Pilot Paul Weitz are scheduled for a meal period starting in about - well, they should be underway about in another half hour, while Science Pilot Joe Kerwin operates the solar astronomy equipment in the telescope mount. Twenty minutes to Carnarvon. At 15:50 ZULU, Skylab Control.

END OF TAPE

SL-II MC429/1
Time: 11:09 CDT
6/2/73

PAO This is Skylab Control. One minute to acquisition of the Carnarvon, Australia tracking station. Slightly over 9 minutes total time over Carnarvon. Brief gap of about 6 minutes over to Guam. We'll leave the circuit up over to Guam. Standing by on air ground for the Carnarvon, Guam pass, at 16:10 ZULU, Skylab Control.

CC Skylab, Houston. AOS for 8 minutes.

SC Roger, Houston.

CC Skylab, we'll be LOS in about a minute. Guam at 16:25.

SC Roger.

CC Skylab, it appears we will not get you on Guam. Goldstone at 16:19 is the next AOS.

SC Okay.

PAO This is Skylab Control. Loss of signal through the Carnarvon station. And it appears that after all we will not have the Guam tracking station this pass. They have technical problems out there, cannot support this particular orbit. Therefore, our next station acquisition of Skylab space station will be in 28 minutes at Goldstone for the end of revolution 274, and the start of 275. At 16:20 Greenwich mean time, Skylab Control.

END OF TAPE

SL-II MC430/1
Time: 11:48 CDT
6/2/73

PAO This is Skylab Control at 16:48 Greenwich mean time; 50 seconds approximately to acquisition at Goldstone. The biomedical officer during the Carnarvon pass earlier in this revolution commented that the run with the commander on the M093 vectocardiogram experiment had been completed but that Pete Conrad stayed on the bicycle for an additional period to get the benefit of the exercise. Standing by for Goldstone and the stateside pass, Skylab Control.

CC Skylab, Houston; AOS for 19 minutes.

CC Copy.

CC CDR, Houston.

CC SPT, Houston.

CC SPT, Houston.

SC Go ahead, Houston.

CC Two notes here. On panel 202 the ILCA heater 1 circuit breaker OPEN.

SC Okay. What's the other one?

CC S052. We need the frames remaining.

SC S052 frames remaining 6527.

CC Copy.

CC CDR, Houston.

SC Wait one. We're taking pictures.

SC Yeah, go ahead, Houston.

CC This is a request that the S009 period adjust be changed from 300 to 120. We'd like for you to give us a time mark, if you do not initiate S009 on time.

SC Houston, when do you want me to do it. I'm (background noise) can I get back to this in about an hour.

CC We were simply asking you to modify the details, Pete, the CDR pad details.

CC If you like, we can give you an advisory in an hour.

SC Oh, Boy! Eating with one hand to stay on schedule and shooting some pictures with the other - That's why I shut you off there pretty quick.

CC Copy.

SC I just got some good pictures of Bermuda with the 300 millimeter for the guys in the tracking station down there.

CC We copy, Pete.

SC And it's a lovely day down there and with the 300 millimeter -

END OF TAPE

SL-II MC-431/1
Time: 12:04 CDT
6/2/73

SC And it's a lovely day down there, and with the 300-millimeter, and the girls look very nice on the beach.

CC Come on, Pete, you haven't been up that long. Your eyes aren't that sharp yet.

SC Even Pete's wife looks good.

CC He's probably looking with his mind's eye.

SC You know what happens when you get to be 43, you get farsighted.

CC Speak for yourself, Pete. I've passed that mark.

SC Well, now that I've caught up, let me give you a time line one on S183. Let's change that operation to a one man operation and I can say that without the 151 you can add 45 minutes off that time line for a 192P183-3 type operation. It's a very simple one man job, and that'll give you plenty of time.

CC Thank you, Pete.

SC Right on. I want to say that up until lunch time, your schedule has worked very, very well. We've had an opportunity to stay right on it and take enough time to do, I think, all the jobs right. As we go along here we may, as I say, 183 obviously became a one man operation, we'll pick up some more flight planning time for you along the line.

CC We copy. Skylab, LOS in one minute. Ascension AOS 17:17.

SC Roger.

PAO This is Skylab Control; 17:09 Greenwich mean time. Loss of signal from Bermuda. Ascension in 7-1/2 minutes. Ascension Island tracking station. Average battery state of charge in the ATM batteries, now around 17.7 percent. Temperature is still in the upper 70's in the workshop, ambient temperatures. Skylab II backup commander Rusty Schweickart is working today in the neutral buoyancy simulator at Marshall Space Flight Center in Huntsville, Alabama. He's investigating possible EVA procedures for fixing the one good workshop solar panel. Schweickart is looking at tools and techniques for prying loose the aluminum angle which is keeping the solar panel from opening out to its full power generating position. Right now, it's uncertain whether Schweickart will return to Houston, today or Sunday, to share his experience and recommendations with the people who are planning the mission. Whether or not to recommend the extravehicular activity to - that Conrad would like to do. To go hand over hand along the solar panel wing beam and pry loose the piece of aluminum angle. 6 minutes to Ascension Island at 17:11 Greenwich mean time. Skylab Control.

END OF TAPE

SL-II MC432/1
Time: 12:16 CDT
6/2/73

PAO This is Skylab Control; 17:16 Greenwich mean time. About 30 seconds now away from acquisition at the Ascension Island Station. 5-1/2 minute total pass time over this station, a lonely island in the South Atlantic. Standing by for resumption of communications between spacecraft communicator, Bill Thornton, and the crew of Skylab Space Station.

CC ...for 5 minutes.

SC Roger.

CC CDR, Houston.

SC Go ahead, Houston.

CC We want you to reenable the startracker: the inner gimble, minus 90; outer gimble, plus 463. Also we're sending up a message for ATM power down. However, we do not expect any difficulties.

SC (garble) Okay. Okay, Houston, and what's the star?

CC Achernar.

CC CDR, the star is Achernar.

SC Okay.

CC Skylab, LOS in 1 minute. AOS Carnarvon, 17:47.

SC See you.

PAO This is Skylab Control; 17:23 Greenwich mean time. Final Ascension Island Tracking Station pass of the afternoon. That's at the outset of revolution 275. Next station - Carnarvon, in 24 minutes. We'll return for the Carnarvon pass in 24 minutes. At 17:24 Greenwich mean time, Skylab Control.

END OF TAPE

SL-II MC-433/1
Time: 12:47 CDT
6/2/73

PAO This is Skylab Control.
SC And this is the CDR. Why don't you go ahead with - with your S009 information.
CC Be right with you.
SC Okay. And S183 is off and running on time; looks normal.
CC Pete, on your CDR detail pad at 18:31, change 300 to 120 for the period adjust.
SC Okay, 18:31 period adjust from 300 to 120.
CC That's affirm. Also, just as a reminder, after field 303 exposures are complete, the sequence switch must be placed to STANDBY prior to setting in the exposure times for field 223.
SC Roger. Understand.
SC Houston, CDR.
CC Go, CDR.
SC I don't how much it affects 183, seeing they're such long exposures, but since I've had the long ones running, we've had two TACS firings. And I'll note that to you rather than on B channel - the people may want to think about that. I really don't know why we keep getting TACS firings. They've been firing all day and all afternoon.
CC We copy that, Pete.
CC Pete, we're looking at the TACS firing here, and except during the Y maneuver, the record shows no TACS firings.
SC Roger. I hear what you're saying there, Houston. But I've been standing in here, and it's fired twice since 17:32. Or we have a little man sitting out somewhere around the base shooting skeet every once and awhile.
CC Copy that you hear the TACS firing louder than what we're saying.
CC Skylab, we're going LOS in one minute. We are not receiving from Guam, so we will see you at Goldstone 18:26.
SC What happened to Guam?
CC Copy. Antenna problems.
SC Wow, okay. See you at Goldstone.
PAO This is Skylab Control; 17:59 Greenwich mean time. Loss of signal through Carnarvon, midway through revolution 275. In normal circumstances we'd be coming up on Guam acquisition in about a minute; however, that station is having antenna problems on the ground. Therefore next acquisition will be Goldstone in 26 minutes. At 18:00 Greenwich mean time, Skylab Control.

END OF TAPE

SL-II MC434/1
Time: 13:24 CDT
6/2/73

PAO This is Skylab Control; 18:25 Greenwich mean time. About 50 seconds away from Goldstone acquisition across the States. Note to newsmen in the Houston area: Kenneth S. Kleinknecht, who is director or manager of the Skylab program at Johnson Space Center, will hold a status briefing in the newsroom between 3:00 and 3:15 today. Repeat: status report by Kenny Kleinknecht, Skylab program manager at Johnson Space Center, between 3:00 and 3:15 in the Johnson Space Center newsroom. We're AOS Goldstone for a stateside pass. Standing by for the conversation between Bill Thornton and the crew of Skylab.

CC Skylab, Houston. AOS for 13 minutes.

SC Hi there, Houston. We got a hack on 0009 closure. We closed at 18:14:16. The period adjust has been set to 120, and I'm standing by to sign it off tight.

CC Okay, Pete. And we have one here we would like you to do as soon as possible.

SC That figures. Go ahead.

CC Okay, we want you to load TA to 3 minutes amend 52030. That's 52030 and 50003; that's five tripple ball 3.

SC Hey, is that it? Load down in 3 minutes 52030500037

CC That's affirmative. This is to minimize TACS firing. We've - on the Y-axis MOMENTUM inhibit and also venting, this has disturbed the situation. We then want you to go to the ALT CMG mode. I'm sorry. That's attitude - attitude CMG mode.

SC Right now?

CC As soon as practical.

CC Want to maneuver minus 6 degrees in Z. Commands are 52020; 5 four balls; another 5 four balls; 51 two balls 6.

SC Okay, want to maneuver 6 degrees in Z; 52020; 50,000; 50,000; and 51006.

CC That's affirm. Okay, strap down initialization: 52012 and 5 triple balls 5.

SC After the maneuver, right?

CC That's affirm.

SC Got anymore?

CC Yes. Go to SI mode. Then after 3 minutes, re-position startracker to inner gimble, minus 0090; outer gimble, plus 0810.

SC Okay.

CC And your star is still Achernar.

SC Got anymore?

CC That's it for the moment, Pete.

SC Okay. Stand by; it's in work.

SL-II MC434/2
Time: 13:24 CDT
6/2/73

SC I've been explaining why we're doing all that while we've doing it.
CC Pete, we've had a momentum build-up from several factors here. The momentum was inhibited. Also, the Y-axis maneuver caused the build-up; there was venting from MO92. All of these have caused a large build-up.
SC Okay.
SC (garble)
CC Say again, Skylab.
SC Ready for some words on the EREP test, Houston?
CC Standing by.
SC First off, is - I cannot get the S190 camera to run off BUS 2 power only. I had to have both buses powered up. And the test came out and showed everything functioning normally. The frame counter's advanced one count, and all the film marks moved approximately 2.6 inches.
CC Copy.
SC Hey, Houston, are you there?
CC Go ahead, Pete.
SC For some silly reason the S009 started in reset all by itself just now. And - cause I had turned the power off after closing it, and I turned the power on 5 minutes in advance after setting the period adjust. And I was sitting there in reset, and all of a sudden it just took off by itself. And we've reclosed it so it (garble) at 18:36:35. But we just thought we'd pass that little word to you.
CC Thank you, Pete.
CC PLT, Houston.
SC Mark S009 is off and running again.
CC We copy, Pete.
SC Okay, it looks to me like the maneuver has settled down. I'm going to go ahead and reinitialize if you agree to that.
CC That's affirmative, Pete. Go ahead.
CC PLT, Houston.
SC Who're you calling?
CC The pilot-calling Paul.
SC Go ahead.
CC During the EREP checkout, did the S190 MALFUNCTION 5 light remain on?
SC They didn't go on because they did not turn the display power on. I assume that the intent of the BUS 2 - I did not have display power on; so I don't know.
CC We copy.
SC Houston --

END OF TAPE

SL-II MC435/1
Time: 13:39 CDT
6/2/73

SC Houston, PLT.
CC Go, PLT.
SC Okay. I just turned S192 power on per the pad. Correction: S191 power on, but not the cooler yet. Do you want us to turn the cooler on?
CC Stand by.
CC Shouldn't have it yet, Paul.
SC Okay.
CC CDR, Houston.
SC Yes.
CC We're trying to get a JOP 9 into unattended operation, if you can go to experiment pointing mode for us at this time. We're also LOS in a minute, and we'll have you Vanguard 18:53.
SC 18:53. Roger.
PAO This is Skylab Control. Loss of signal through the Mila station; Vanguard in 9 minutes. At 18:44 Greenwich mean time, Skylab Control.

END OF TAPE

SL-1 MC-436/1
Time: 13:51 CDT
6/2/73

PAO This is Skylab Control; 18:52 Greenwich mean time. A minute out now from a very brief pass by the Vanguard tracking station. Approximately 5 minutes, very low elevation angle, 2.3 degrees. Then the next pass after Vanguard will be an hour and ten minutes away, Goldstone. That will be the onset of the EREP pass for today. EREP track 63 across the California coastline north of San Francisco, down through all the central valleys of California on down the western coastline of Mexico. Standing by live air-ground for the Vanguard pass.

CC Skylab, Houston. AOS for 4 minutes.

SC Hi, Houston. Are you there? Hello, Houston.

CC Standing by, Pete, go ahead.

SC Okay. We've been getting C&G SATS and also on the EREP tape recorder on checkout we came up with a malf light. We've chased it down, it says to clean recorder which has already been done. We are cleaning it in a specific place that I found that was so dirty. Do you think that will solve the problem. If it does not we'll switch to recorder C.

CC We copy that, Pete. We also would like to continue on attended commands on JOP 9. If you are through with the DAS?

SC It's all yours. Houston, the situation is that, on the tape recorder all indications are normal at the slow speed, however when we go to high speed, we get both a malf light and a tape motion light. Well, we just finished cleaning it again and we got quite a bit more, a fair amount, I'd say quite a bit, comparatively speaking. Some dirt off the rollers and we're talking about switching to number 2 recorder.

CC We copy, Paul.

SC Okay, Houston, CDR. For your information this is within a couple of seconds, S009 just closed at 185625 give or take a couple of seconds.

CC We copy. And PLT, we agree with going to the second tape recorder if you can not get that one going. Skylab, LOS in one minute. Goldstone at 20:03.

SC Roger.

SC Houston, if you're there. On the EREP, reading C-7, Charlie 7, at 24, 2 - 4.

CC We copy, Pete.

PAO This is Skylab Control; 18:59 Greenwich mean time. Loss of signal through the first evening pass over Vanguard. The next three or four REVs passed through

SL-II MC-436/2
Time: 13:51 CDT
6/2/73

Vanguard. And wi'll have the final pass of the day through Canary and Ascension. We miss Carnarvon and Guam for the next several revolutions, - the orbit precesses westward. Next stateside pass acquisition at 3 minutes past the hour, 3 minutes past 3 o'clock, Houston time, and that will be the start of today's Earth Resources Survey Pass. And at 19:00 Greenwich mean time, this is Skylab Control.

END OF TAPE

SL-II MC-437/1
Time: 15:00 CDT
6/2/73

PAO This is Skylab Control; Greenwich mean time 20:01. The second Skylab Earth Resources Pass is scheduled to begin over the west coast of California in approximately 3 minutes. This pass will use 5 of the Earth Resources Experiment Package instruments, the S190, the S191, S192, S193, and S194. The only instrument not scheduled for use in this 10 minute pass down the California coast and into Mexico, is the Earth Terrain Camera. Commander Conrad and Pilot Weitz will be operating the Earth Resources Experiment Package and the Multiple Docking Adapter, while Science Pilot Joseph Kerwin is conducting housekeeping experiments in the orbital workshop. We expect to have AOS very shorty. We'll keep open the line. There will be a briefing in the news center immediately following the Earth Resources Pass, with Kenneth S. Kleinknecht Program Manager of the Skylab Office at the Johnson Space Center.

SC That one.

CC Skylab, Houston. AOS for 14 minutes.

SC Right on, Houston. Loud and clear. How do you read?

CC You're loud and clear also.

SC Okay.

CC And be advised that the San Francisco area is clear except over the water. And the salt and sea area is also supposed to be clear.

SC We in attitude, Joe?

SC Okay, we're starting the data tapes, Houston, SPT says we're not quite in attitude, yet.

CC Copy.

SC Tape recorders function normally. We have an S192 READY light. We do not have an S191 READY light. Bravo 7 reads 85, Charlie-7 reads 40. S190 READY light it is okay, the only malfunction light we've errored S190 today is the cover closed light. However, I can see that the cover is not closed that's an easy one to take care of. S193 altimeter, is operating, the READY light is on ON. S194 READY light is ON.

CC Copy.

SC While we have a break here, Houston, I want to make sure you understand that during the EREP pass, two or three days ago, whenever it was, we did not get a satisfactory data alinement. We are going today with the prelaunch pad data line.

CC We copy that.

PLT How's the weather down there, Pete?

PLT Okay. Be advised, Houston, this run is not starting off to be the best one. We got a little behind. We had big problems with the 192 alinement, that we will discuss in detail with you later. And jumping back and forth between checklist and pads, I started S190 early, I guess it started when we started EREP system and also S192 wasn't ready when we started EREP system. So we've been pulling more tape than we thought and we will have used more film.

CC No problem.

SC I'm getting an intermittent altimeter on lock on S193 the altimeter. I've never had the READY light on the altimeter since turning it on.

SC Okay. The mode 2. The altimeter seems to be functioning normally, I've got a READY light. At the beginning of the sequence I had an intermittent altimeter unlock light, however, I have not had it for the last minute or so.

SC Okay.

SC Stand by to give me an AUTO Channel B, 5 seconds. Okay, punch it, give me an AUTO CAL, please.

SC That's right, it's stopped working.

SC You still there, Houston, or did we lose you?

CC We're still with you.

PLT Well, okay. The ETS operation says he got both lights all night. This altimeter mode appears to still be functioning very - just as I said that I got a one quick/ altimeter on lock, it's on right now. Off and on. May have been a pretty good mode though.

CC Paul, that unlock occurs over rough terrain sometimes.

PLT Yeah, understand, just let you know, Bill. Okay, the READY went out right on time. Now to do one.

PLT Okay, I just had a notice. I had Beta Alpha 8 called up, CAL Amp current just dropped to zero. I guess that's all right, the way the things are working.

PLT Woops. Missed S192.

PLT RAD/SCAD appears to be functioning all right.

PLT You've a number?

PLT Okay, Houston. You still up?

END OF TAPE

SC (garble)
SC Okay, Houston, you still out?
CC We're still with you.
SC Okay.
SC What I saw on Alpha 8 out of the corner of my eye - I don't know what that indicates, but it indicates that at least the AUTO CAL sequence was initiated for me. We seemed to have gotten rid of MALF lights on S190. A loose knot on the end of the stick there caused us to use the rest of the tape and a few extra frames. I did reinitiate S190 so that we covered the end of the (garble), and then I stopped it manually at the time advertised on the pad. Other than that, the pass seemed to go pretty good.
CC We copy.
SC Houston, CDR.
CC Go, CDR.
SC (garble) let me ask you to review this for the next pass. Are the tape recorder (garble)? Since I had turned off the S192 circuit breakers the other day when I was cleaning the tape recorder number 1. So would that cause a MALF light when checking the tape recorder in the 192 mode? If so, that may be our problem.
CC Stand by half.
CC Skylab, we'll be LOS in about a minute and a half. Vanguard AOS is 20:27.
SC Okay.
CC Pete, they think your analysis is correct. However, they're checking further on this.
SC Okay. We'll go ahead and check it out when we get done here. We can do that real quick. We'll fix back the one and give her a go.
CC Copy.
PAO This is Skylab Control at Greenwich mean time 20 hours 18 minutes. Pilot Paul Weitz described to the ground the various activities associated with the recent CREP pass, which began 500 miles west of San Francisco, ran down the California Coast into Mexico. His discussions were primarily aimed at S193, the microwave radiometer altimeter experiment. The project scientist here at the Johnson Space Center is Dallas Evans. He also discussed the S190. This is a bank of six cameras which photograph a 92 mile swath with ground resolution of 100 feet in six different wavelengths. We will now switch to the - to the NASA News Room in Building 1 for a press conference with Kenneth S. Kleinknecht, manager of the Skylab Program Office of the Johnson Space Center. This is Skylab Control at Greenwich mean time 20 hours 19 minutes.

END OF TAPE

SL-II MC-439/I
Time: 15:53 CDT, 0:20:53 GMT
6/2/73

FAO This is Skylab Control, Greenwich mean time 20 hours, 53 minutes. During the press conference just concluded we had a live pass over the Vanguard tracking station of approximately 8 minutes and 30 seconds. During this pass of the Paul Weitz, Pilot Paul Weitz discussed with the ground some of the difficulties they had in the EREP pass. Science Pilot, Joseph Kerwin reported that he had completed transfer of the electronics unit from the MC-74 specimen mass measurement device from the ward - waste management area to the ward-room area. The ground completed confirmation that after the vehicle returned to solar inertial attitude, the attitude which the spacecraft is placed in order to get maximum Sun to the ATM solar panels. The EGIL officer reported we 16 completes which showed that all CBRM's were brought back on line and the state of charge at this time is approximately 70 percent. We'll bring up the line for that live pass at this time. We've had AOS over Hawaii in 43 minutes. This is Skylab Control.

CC Skylab, Houston, AOS for 9 minutes.

CDR Okay, Houston. We gave tape recorder 1 a fast checkout. It's okay, so you can scratch one up to the ole' CDR. I left the breakers off, not the - well I left the 192 breakers off.. Paul was checking it out for me. It was my fault, we've (garble) a speck on that. I've reconfigured the tape recorder too cause I assume you'd like to run that roll out.

CC We concur with that, Pete.

CC And CDR, we have a change in flight plan for you here.

CDR Okay. Go ahead.

CC To avoid preventing a dump, a momentum dump this evening, we want you not to inhibit that 2115. Correction. Correction. We want you not to inhibit at 2129 which means that you will not have to enable that 2248. At the same time, we want you to start your PT and PH at 21:15. We also want to start the MO-74 cal at 21:15. However, don't start this until the dump is over which should be 21:10. And then follow both of these with the M-131. This is to avoid a reset routine, Commander.

CDR Okay. (Laughter) (Garble) just (garble) all three of us. (Laughter) great. We'll do it.

CC Look - yeah let's try again. Just do a image - the PTTH and the M-131, also the MO-74 and M-131.

CDR We got it.

CC You're squealing Skylab.

SPT Houston, this is - you're squealing, SPT. I've got a manful job of getting the EREP

television out of the way, hand holding it. We had a TV camera failure, and we'll check that out some more and report to you later, but it looks like one of our cameras went belly up. The stowage did not permit doing the TV the way it was supposed to be done. But I think we got you some good TV, also some blank tape.

CC We copy.

SPT And if you've got no more messages, I 'd like to say a couple of words about the attempted 192 alignment, Bill.

CC Go ahead.

SPT Okay, this time we'll have two operaters here. I won't tell you which one. Just to keep things evened up. The - -

CC Hey, you fellows aren't celebrating Pete's birthday already are you?

SPT There's some things that - we're laughing to keep from crying is what it is if you really want to know down there.

CC We copy.

SPT Okay, anyway we started out pretty good and this other operator tweaked it out of focus a little bit and overshot and said he would come back and get an even better in which case bolted it again and pulled it into zero, after which we went through - he must have done five square searches to (garble) And he gave up on that and went to try the past (laughter) He went to try the uplink thermal alignment procedure - that was an absolute zero - because he went over the whole scan available - the meter stayed sitting right squad at 12 percent. However, in the process of doing that we looked over and lo and behold invisible - and we came out short 60 percent so and while we were watching that it crept up to 70, so then we tweaked it up again and they took my heart in my hand and focused it a little bit and we got it back to about what we started with. So we put in approximately 2-1/2 man hours to keep from losing ground.

CC We copy.

SPT I have another one added. You're through with the whole procedure - we never had it aligned ready light.

CC Copy.

SPT (Garble) let the SPT give you one one because I was hand holding the television - I failed to get the ZLV (garble) for which I apologize and on that me a TV. I hope we don't have to do it again or I think we've got enough, I mean for EREP. I was scheduled to be down in the basement doing malf procedures and calibrations and stuff, but no way, even with three of us up here it was tough going.

CC — We copy.
PLT — Incidently, however, I did get the MO-74 electronics changed in the head. The one in the head now works fine, the one in the wardroom doesn't.
CC — We copy, and thank you, Joe. And on that cal, if it's at all possible for you to get that one cal down to us by voice, we'd be grateful. We are aware of your comments this morning and I'm bringing the rest of it back, but we haven't seen that.
SPT — A fifth of good wine for me? After the flight?
CDR — Houston, you still there?
CC — Yeah, we'll still here, Pete.
CDR — Let me tell you what the problem was on this - we got curve on the TV because when they did the setup work which they did a very excellent job on, the ATM panel didn't have a chair or the three work boards at it. So the first thing that happened was PJ took the first board away to mount the camera and then setup the camera and was looking at two more boards and a chair and rather a chair up Dr. Kerwin's library spread out in front of the panel which we decided we elected to hand hold. And then we started getting in other troubles with the alignments and so we started by the curve and slowly faded (garble) I hit the curb and I'm not sure we've caught up yet, but we're getting there.
CC — Okay, Pete. We copy.
CDR — You know for PV-11 SL-3, why they ought to find another location - I think about the fact that there are other things in the way.
CC — We copy.
CC — Pete. Could you give us a quick call on which circuit breakers and when, for example, there are two on panel 192 and one on 202.
CDR — The ones on panel 137. 137, Houston.
CC — We copy.
CC — Pete, could you tell us when you closed those?
CDR — 18:15, Houston.
CC — Thank you very much.
CDR — The breakers were closed at approximately 18:15 Zulu.
CC — We copy that, thank you.
SPT — Houston, SPT. Are you monitoring our EPS along with (garble)?
CC — That's affirmative, Joe.
SPT — Okay.
SPT — I've got a rate flow talkback.
CC — We copy. We've got 16 complete set times.
SPT — Okay.

SL-II MC-439/4
Time: 15:53 CDT, 9:20:53 GMT
6/2/73

SPT Do we have time for that other (garble) on 192, Houston?

PAO This is Skylab Control, Greenwich mean time 21 hours and three minutes. As evidenced by that discussion the crew apparently is enjoying their work in Skylab as Commander Conrad repeatedly chuckled over the air-to-ground. Science Pilot, Kerwin reported a rate talk-back at the end of the last pass. This indications were that one of the CBRM's might not have returned but the ground however, reported that 16 CBRM's had returned on line. We will have air-to-ground a live air-to-ground over Hawaii in 33 minutes from now. Another point to clarify - Science Pilot Kerwin reported transferring the electronics from the wardroom specimen mass measurement device to the weight management area. This is Skylab Control at 21 hours 04 minutes Greenwich mean time.

END OF TAPE

PAO This is Skylab Control. Greenwich mean time 21 hours 36 minutes. We anticipate a very brief pass over the Hawaii tracking station. This pass should last approximately 1 minute.

CC Skylab Houston. AOS for about a minute.

PLT Okay Houston. If you get a chance, look at S054 will you please. I have a white talkback on the door. I cannot get it either way.

CC We copy Paul. We're looking. Also on your previous voice transmission on the CBRMs, we had 16 complete down here, but you mentioned there was an anomoly. Can you say another word about it?

PLT That was the SPT, and I was just asking you to look at them with me. We had a barber pole rate talkback, but it was for number 3 and we too had 16 good ones.

CC Copy.

CC We show the same indication here as we've got in your malf procedure.

PLT Okay, on the door, you mean?

CC That's affirmative.

PLT Okay, reading through the book it leads me through the block and says the door has failed. It then leads you on to inhibit the primary motor and power up the, enable the secondary. And I'll wait for word from you guys.

CC Copy and approved.

PLT Do you want me to go ahead and do that?

CC Stand by.

CC We'll be LOS in about a minute or less and we'll see you in Hawaii - at Goldstone at 21:42.

CC Paul, go to page 14-3 malf and proceed from there.

PAO This is Skylab Control. A brief conversation with Capcom, Dr. Bill Thornton and Pilot, Paul Weitz discussing a door apparently which has malfunctioned on the S054 experiment. The S054 is part of the Apollo telescope mount series. The X-RAY spectrographic telescope. The ground will check on that. Paul Weitz said he had a white talkback on the door, which indicates the door has not functioned properly. Science Pilot Kerwin reported he had a barber pole on one of the CBRMs. He said that this was number 3. The ground did confirm with the spacecraft that they did have 16 complete CBRMs come on line following the Earth Resources pass at 3:00 this afternoon. We will have AOS over Goldstone. We will leave the line up for any conversation coming over Goldstone. This is Skylab Control at 21

SL-II MC-440/2
Time: 16:36 CDT 9:21:36 GMT
6/2/73

hours 41 minutes Greenwich mean time.
CC Skylab Houston. AOS for about a minute.
CC PLT, Houston.

END OF TAPE

SL-II MC-441/1
Time: 16:43 CDT 09:21:43 GMT
6/2/73

CC Skylab, Houston. AOS for about 3 minutes.
CDR Roger.
CC PLT, Houston.
PLT Go.
CC We want you to proceed on normal ATM OPS, and when you have time. On page 14-3 on your malf procedures on ATM, if you would do that at that time, when you have time.
CC And Skylab, we'll be dumping the tape recorder at Vanguard.
CC Skylab, Houston. LOS in approximately one minute. AOS Vanguard at 2204. We're coming up, you should be seeing a tropical depression in approximately 3 minutes that you might want to take a look at.
PLT Okay, we will if we get time. The status is the secondary door does not open the motor. Lights burning good, and we're going to put them both on the line now.
CC We copy.
PAO This is Skylab Control, 21 hours 47 minutes, Greenwich mean time. The previous conversation through the Goldstone tracking station. Discussions were continued on the S054 door, which seems to be inoperative. The ground does not know whether the door is opened or closed at this time. Capcom, Dr. Bill Thornton has advised the crew to proceed with normal operations of the ATM experiments. S054 is designed to obtain photos of the X-RAY producing events. The flares in active regions on the Sun in the soft X-Ray spectrum to show time development from a fraction of a second to several months, and distinguish thermal from non-thermal sources. The crew has also been asked to look at a tropical disturbance southwest of Mexico at this time. The crew was asked to look at, and their response was, if we have time. The next acquisition will be over Vanguard tracking station in approximately 15 minutes from now. This is Skylab Control, Greenich mean time 21 hours 49 minutes.

END OF TAPE

SL-II MC-442/1
Time: 17:04 CDT 9:22:04 GMT
6/2/73

PAO This is Skylab Control, Greenwich mean time 22 hours and 3 minutes. Skylab space station is now, will be crossing over the tip of South America, shortly to begin its 278th revolution. We anticipate conversation with the crew as the spacecraft passes within the Vanguard tracking station. This is Skylab Control.

CC Skylab Houston, AOS 10 minutes.

SPT Roger Houston. We got the S4 door open. Pete worked the procedure while I while I read the JOP. What he wound up doing was putting both motors on to get the door open. And according to the malfunction procedure, when you do that, it opens the other experiment which shares those motors and leaves them both open. However, as I'm sure you are even more aware of than I was is that, that other experiment for S4 is S052. So the plan right now I've got the auto door switch to stowage and we're going to close all the doors manually at sunset except S054. And I'll go on that until you tell me something different.

CC We copy.

PLT Also Bill, while the ATM guys are smoking that one over, I've got a comment for the EREP guys on the S192.

CC We're standing by, Paul.

PLT Okay gang, what happened was of course with those breakers being open, we started to warm up early, late I mean. But I was listening for the coolant motor to shift gears. Well it shifted down and ran in low speed for about half a minute I guess and then it started to cycle and it sounded to me like it was cycling between high and low for 2 or 3 minutes, and about once a second or once every 2 seconds frequency and then finally it settled in on low speed, and for what ever that is worth.

CC We copy.

PLT Hey Houston I got the AUTO DOOR switch in STORAGE rather than INHIBIT. I assume either position will hold that door open.

CC We copy Paul.

END OF TAPE

SL-11 MC-443/1
Time: 17:09 CDT 09:22:09 GMT
6/2/73

CC PLT, Houston.
PLT Go ahead.
CC We want you to perform Block 22 of the malfunction procedure.
PLT (garble)
PLT I guess maybe Pete and I didn't understand the procedure then. You saying if we do Block 22 which inhibits both those motors, t[illegible]'ll do it for 54, but won't affect 52. Is that right?
CC It will leave 52 open also, Paul, but that is what they want to do.
PLT Okay, so next pass then, you saying when I go sunsetters, I'll get it (garble) open the 52 doors, and perform Block 22, and leave those two doors open, and we'll have to stay sunsetters for a while then, huh?
CC Paul, they want you to continue on through the malfunction procedure, 19 through 22, and 22 has a warning block, and this leads you on into Block 25.
PLT Okay. How about just answering a couple of questions for me? If I perform Block 22 for SO54, does that also disable the doors to SO52?
CC That's affirmative.
PLT Okay. So we want to leave them both open, and do that and then by merely going to TV with the main power in STAND BY, but you say we have to go to TV before we go to STANDBY, and that'll flip the MALF and protect SO52.
CC That's affirmative, Paul.
PLT Okay, got it. Thank you. Well, I'll stay in my present configuration until next daytime pass, which happens to be a sunsetters job anyway.
CC Roger there.
CC Skylab, LOS in about 30 seconds. Hawaii AOS 23:13.
PLT Okay. See you in an hour.
PAO This is Skylab Control. 22 hours and 15 minutes Greenwich mean time. Capcom Dr. Bill Thornton advised the crew that the procedure they followed in opening the SO54 door, the X-Ray spectrographic telescope was proper. In so doing the SO52 door opened at the same time. The ground advised the crew this is perfectly all right and they shall continue to operate in this mode. The Vanguard tracking acquisition was just concluded. The next pass will be over Hawaii in 57 minutes. On the next Vanguard pass at 1 hour and 26 minutes from now, Commander Pete Conrad will be greeted by his family on live air to ground, as the crew of Skylab space station makes a 9 minute pass over Vanguard, beginning at 6:42 central daylight time. 6:42 p. m.

central daylight time. Mrs. Conrad and the Conrad four children, Peter, age 18; Tommy, age 16; Andy, age 14; and Chris, age 12, are scheduled to come to the Mission Control Center, where they will talk to their - Commander Conrad, in observing his 43rd birthday today. This will occur at approximately 6:42 p. m. this evening. This is Skylab Control at 22 hours 17 minutes Greenwich mean time.

END OF TAPE

SL-II MC-4[illegible]/1
Time: 18:12 CDT [illegible] GMT
[illegible]/73

PAO This is Skylab Control. Greenwich mean time 23 hours and 12 minutes. Skylab space station is coming into acqusition with the Hawaii tracking station. We anticipate a pass of approximately 9 minutes. We will pick up the line and wait for any conversation.

CC - - minutes.

SPT Roger, Houston, this is the SPT. The PLT has the S052 door opan and the S054 door open and the S052 configure mirror position to TV main power stand by and he has both the primary and secondary door motors inhibited. And so we're in a good configuration but we are nervous as cats about it because any time we use S052, we're in a position to blow it sky high if we don't remember the procedures. Are you, by any chance, planning to try closing the S054 door again on 1 motor?

CC Stand by, Joe.

SPT It seems to me it would be worth risking because if you drive it in on one motor, you can always use two to get it open again. And it would stay in S052 from this risk you take.

CC They're looking at it Joe. Joe, while we're on the subject, on the daily ATM schedule pad, do you want this warning in block 22 relative to S052 set up?

SPT Well, I don't think it would hurt to have it on the top of every dayside pass. We have constructed a cue card and rigged it with red tape and put it on the console near the MPC. And I just hope we remember. And if something happens like the flare alarm or so you might you know, go hurrying off and then it's too late.

CC Okay Joe, we copy.

CC And Joe, save the food that you asked about this morning and we're sending up a stowage procedure shortly.

SPT Okay.

SPT Also, Houston, leaving those door, door motors inhibited has an operational application in that you have to deduce when the experiments say it is operating like keeping track of the dark frame cutters. That I wasn't aware that inhibiting the motor also does away with the door position talkback and the radio operation indications through the operator.

CC Copy.

CC Is the CDR busy at the moment?

SPT Say again, Houston.

CC Is the CDR busy at the moment?

SPT Roger, he's recording the daily evening report on Channel B. I'll have him give you a call soon as he's don

SL-II MC-444/2
Time: 18:12 CDT 9:23:12 GMT
6/2/73

CC Okay.
CDR Go ahead, Houston.
CC Pete, some people will be talking to you over Vanguard on this coming pass on the open loop.
CDR Okay.
CC And while about it, Pete a very happy birthday.
CDR Thank you sir. I was thinking about that when I was in the LBNP. It was a heck of a day to be in a can, in a can on my birthday.
CC Yeah.
CDR Especially seeing it's a Saturday isn't it? Today is Saturday isn't it.
CC Yeah, today is Saturday. I've got to buy my wife a birthday dinner as a matter of fact, and I'll be thinking about you eating your gourmet Skylab food while we struggle through something.
CDR Very good. Is today her birthday? If so, wish her happy birthday for me.
CC Skylab, LOS in 1 minute. Vanguard at 23:43.
CDR Roger.
PAO This is Skylab Control, 23 hours 23 minutes Greenwich mean time. Conversation with the Skylab space station over Hawaii with Capcom Dr. Bill Thornton, wishing Commander Pete Conrad a happy birthday on his 43rd birthday. Commander Conrad commented said he was thinking of it as he was laying in the lower body negative pressure device medical experiment M09?. And he said it's a heck of a day to be spending a day in the can. The lower body negative pressure device is a cylindrical device which the astronauts slide into and pressure is lowered in the device. And Capcom Thornton continued by saying that he would have to go out and buy his wife a dinner today, it's her birthday. And he mentioned that he would have to buy his wife a dinner and as you struggle through your gourmet meal. It so happens tonight Commander Conrad is having spaghetti, green beans and ice cream. That's vanilla ice cream. The first time ice cream has been flown in American spacecraft. This is Skylab Control at Greenwich mean time 23 hours 24 minutes. The next pass will be over Vanguard in approximately 18 minutes.

END OF TAPE

SL-[illegible] MD-445/1
Time: 16:40 CDT, 9:23:40 GMT
[illegible]

PAO This is Skylab Control, Greenwich mean time 23 hours and 40 minutes. We will have acquisition at the Vanguard tracking station. We will expect a live pass with the spacecraft and on the ground to talk to Commander Pete Conrad is his wife Jane and their four children, Peter, Tommy, Andy, and Chris here to observe their father's 43rd birthday.

CC Skylab, this is Houston standing by for the next 9 minutes.

CDR Hello there, Houston. Skylab, here.

CC Skylab, was that you answering?

CDR That's affirmative. How do you read?

CC Hello, Pete. We have a special crew of CAPCOMS taking over this pass.

JANE Hi Dearie. Do you know who this is?

JANE Dearie?

CDR Hello there? How do you read?

JANE Okay, just fine. I just got the button right. Well, the boys and I wanted to call you up and say "Happy Birthday".

CDR Thank you. The boys ought to be up here. They'd really enjoy this big tank.

JANE I know it. We watched the movie yesterday and we were just going crazy.

CDR What did Thomas said he wanted to do.

TOMMY Dad?

CDR Yes sir.

TOMMY When can I catch the next flight up there?

CDR Oh about the time you finish college I guess.

TOMMY Because I wanna try floating around.

JANE Here's Andy. He wants to say something.

ANDY Say, Dad.

CDR Hello Andrew, how's it going?

ANDY Umm fine.

CDR You boys been out on the bikes?

ANDY What?

CDR Have you boys been out on the bikes?

ANDY No. Not hardly any.

JANE Here's Crissy.

CHRIS Hi Dad.

CDR Hello, Christopher, how's everything - oh what's tomorrow? Tomorrow's Sunday? Y'all going to run the bikes tomorrow?

CHRIS Yes, I think Thomas is, but I don't really want to.

CDR Okay. Been ready to play golf?

JANE Here's Peter.

SL-II MC-645/2
Time: 10:40 CDT, [illegible]:40 GMT
6/2/73

PETER How'ra ya doing Dad?
CDR Good, you all finished?
PETER Yes sir. I think I passed.
CDR How'd it go?
PETER All right. I think I passed this year.
CDR Very good.
JANE That movie was so terrific. We don't wish you were here, we wish we were there.
CDR It's pretty good. We had a good day today. The schedule worked well and I think we're learning our way around. We certainly haven't done everything there is to do, so I'm not worryied about the rest of the time passing.
JANE Well, we're going to stay here until the EVA and then we'll probably go to the ranch.
CDR Okay, very good. Well that's what? I've lost track of time.
JANE Well I don't know. The EVA's supposed to be either Tuesday or Wednesday, I think, if they get it all worked out. Do you know when it is?
CDR No, I - oh, yeah, okay.
JANE Anybody else want to say hello? Beth's here, do you want to say hi to her?
CDR Certainly. Hi, Beth, how's everybody in Uvalde?
JANE Wait a minute. Beth doesn't have a head-set yet, Peter's just getting ready to hand it to her.
CDR Okay.
BETH Hi.
CDR Hi, Beth. How's everybody in Uvalde?
BETH Just fine.
CDR That's good - y'all have a good time down at the ranch.
JANE Dearie, all the neighbors wanted me to wish you "Happy Birthday" and your mother did too.
CDR Well, thank you for them - for their thanks and birthday wishes - also how are the Allens?
JANE Their doing just fine.
JANE And they said "Happy Birthday" too.
CDR Good, okay, thank you.
JANE Somebody's saying ask him something. What?
TOMMY Dad?
JANE Oh, what are you having for dinner tonight?
CDR Green beans. And I ate them all.
JANE Good for you. (Laughter)
CDR I think I'm gaining weight.
JANE Don't you have a way to oscillate yourself and see?

CDR — Yeah, well, the ground weight says that we weigh more than when we took off, but the scale conversion that we have up here says all of us have lost about a pound or two, so I don't know. But I think we're holding our own.

JANE — Do you feel good?

CDR — I also had spaghetti and I'm holding two extra butter cookies tonight to eat with my ice cream to celebrate my birthday.

JANE — Good, do you feel good?

CDR — I feel just fine.

JANE — Great. Okay, Chrissy wants to say something else.

CHRIS — Dad, Grannie wants to know your - the size shirt you want cause she's gonna get you it for your birthday.

CDR — Well, I haven't changed any on that. It's 14-1/2 and 32.

CHRIS — Okay, she just wanted to know that. She called me up the other night and said to ask you when we talked to you.

CDR — Okay, very good.

CHRIS — Okay. See you in a month.

ANDY — Dad?

CDR — It won't be that long now.

ANDY — Dad?

CDR — Yeah.

ANDY — This is Andy.

CDR — Yeah, I know who it is.

ANDY — I got my cam and I had to adjust it.

CDR — You did? Is it running all right?

ANDY — No, I don't know how to tune it.

CDR — Oh, can't Thomas tune it for you?

ANDY — Huh uh.. Here's Thomas.

TOMMY — Dad?

CDR — Yeah.

TOMMY — I was trying to tune it, but I don't know it - the size of the cam doesn't seem like too much extra.

CDR — Well, we'll have to look at it when I get back. I'll have to tweak up on my tuning again.

THOMAS — Okay, I think Peter wants to talk to you.

CDR — All right.

END OF TAPE

SL-II MC-446/1
Time: 18:49 CDT 09:23:49 GMT
6/2/73

CDR I'll have to look at it when I get back. I'll have to tweak up on my tuning again.
ANDY Okay, I think Peter wants to talk to you.
CDR All right.
PETER Dad.
CDR Been doing any flying.
PETER Yeah, will that's what I need to talk to you about. Can I go make a cross country next week, cause I haven't flown cross country in a year, since last summer?
CDR Okay, very good. Were you gonna go out to Uvalde?
PETER I'm gonna go to Laredo for the night.
CDR Okay, very good. Have a good time.
PETER All right.
CDR No thunder bumpers.
JANE Deary , say high to your buddies and congratulate them on their summersaults.
CDR I sure will. They're sitting here listening.
JANE What did you say?
CDR I said, they're sitting here listening. Say hello to them yourself.
JANE Okay.
PLT Hi. Jane.
JANE Hi, is this Paul?
PLT Yes.
JANE Hello. Who are we talking to now?
JANE Hello.
SPT Hello, Hello.
JANE Hi. Is this Joe?
SPT Yeah. I haven't figured out how this darn thing works yet, you know.
JANE Well, you have about 500 people trying to talk to you at once. Maybe that's why.
SPT (laughter)
JANE We all watched the movies last night. Everybody gathered up in Kenny Kleinknecht's office, and we saw the best acrobatics we've ever seen in our lives. We were so jealous we couldn't stand it.
SPT Great. Were the Kurwins there.
JANE They certainly were. All of them.
SPT Give them all my love, Jane.
JANE Okay, I sure will. Good to talk to you.
CDR You all be good. I guess we ought to be at about the end of the pass, huh?
JANE We have a minute and 35 seconds. Christy wants to say something else.

SL-II MC-446/2
Time: 18:49 CDT 09:23:49 GMT
6/2/73

CDR Okay. You sound like a good Capcom.
CHRISTY Happy birthday, Dad. I just wanted to tell you that.
CDR Okay, Chrissy, thank you.
CHRIS Okay.
JANE I guess we'll let the Capcom have a minute and 20 seconds, in case he has something important to tell you.
CDR Okay.
JANE But, happy birthday. And Bye-Bye. I'll talk to you again.
CDR All righty.
CC Pete,Carl down here. I'll be with you for the rest of the evening, and we've got one minute to LOS. We'll see you over Hawaii at 0050.
CDR Roger Carl, now that we got you up at Capcom, I expect to see lots of S019 - I mean I won't be surprised if I see lots of it.
CC Man, I sure hope so, and hey, thanks to you guys for getting that fixed, especially to Paul. That was a great job.
CDR No sweat.
PLT Not only that, but I found the forth screw today and put it back.
CC Hurray. That's a great - Now we're really going.
CDR Don't how it missed going into the big OWS screen, and it made it by there, which is very difficult to do, and we found it in the OWS heater exchanger.
CC Amazing.
PAO This is Skylab Control Greenwich mean time 23 hours 53 minutes. A very happy family in the mission Control Center this evening. Mrs. Jane Conrad and her four children talking to their father on his birthday. Jane Conrad commented after watching the film of the orbital workshop exercise yesterday, she told her husband "We don't wish you were here, we wish we were there with you." Commander Pete Conrad's older son Peter asked his father's permission to make a cross country flight in his airplane. The young boy has been a pilot for quite awhile. Mrs. Conrad mentioned to her husband that they plan to stay in Houston until the proposed EVA to repair the orbital workshop solar panel is conducted, then they plan to leave for Uvalde to Mrs. Conrad's parent's ranch outside of Uvalde. Attending the conversation with the Conrad family was Beth Casal, 17 year old Uvalde girl, who says she is Peter Conrad's girlfriend. This is Skylab Control at 23 hours 54 minutes. We will acquisition over Hawaii in approximately 56 minutes.

END OF TAPE

SL-II MC-447/1
Time: 19:07 CDT 10:00:07 GMT
6/2/73

PAO This is Skylab Control at 00:07 minutes Greenwich mean time. We are presently in a change over of flight controls here at the Mission Control Center. Off going Flight Director Don Puddy is turning the Control Center over to Neil Hutchinson, who heads up the silver team. Flight Director Puddy is scheduled to hold a press conference in the Building 1 Newsroom at approximately 7:20. As Skylab is in its 279th revolution crossing over South Africa. This is Skylab Control at 00:07 minutes Greenwich mean time.

END OF TAPE

SL-II MC-449/1
Time: 20:20 CDT, 10:01:20 GMT
6/2/73

PAO This is Skylab Control, Greenwich mean time one hour 20 minutes. Skylab space station will be approaching the Vanguard tracking station where we expect we will have air-to-ground for the final evening report from Commander Conrad on the day's activities. Pilot Paul Weitz is scheduled to spend approximately one hour on the ATM console later this evening prior to the crew's scheduled sleep time which will begin at 03:00 hours Greenwich mean time. We'll keep up the line now for any air-to-ground with Capcom, Dr. Carl Henize.

CC Skylab, Houston, standing by for 10 minutes.

CC And Skylab, be advised we are dumping tape recorders this pass and we'll be standing by for an evening status report.

CDR Okay, coming up right away.

CDR Okay, shooting for the CDR. He ate everything plus two butter cookies, three optional (garble).

CC Roger.

CDR The SPT, he ate all his breakfast. He did not eat his catsup for lunch because it spoiled, nor did he eat his bread. He ate everything else. He had Delta H20 of (garble), 1.0 and that was it.

CC We copy.

CDR Okay. I have to read all this. The PLT ate half his bread for breakfast, and did not drink his coffee with sugar. Okay. For lunch (garble) 65 he only ate some of it. And he had two tissues in the box, but he weighed it, and the weights were 2.2, 018 9 2201 and 50 220135. He had optional calories 22 (garble) (laughter). He didn't eat all his pudding so he confused me a minute. Okay. Let's go on to dinner and then let's put down that he ate all his dinner and then let's put - (garble) well why don't you scratch it out. Okay. Didn't eat item 22 for dinner and he got no tissues in the can and weighed out at 2006920 206947 206936. He also didn't eat all of items 32. He had no tissues in that can and that weighed 1211297 211259 211357. Then we get to his snack. He didn't drink his coffee, but he ate everything else.

CC Skylab, we're still copying.

CDR So am I. Okay, let me give you the photo status report for day 153. The 16 millimeter column you had a camera 151/f-183, CIO-4 80 MTO-1. The next column. F-183 2803 90 not applicable. The next 16 millimeter column. EREP 2 BHO-1 80 percent not applicable. 35 millimeter ZI 26, frame count is 29, ZX-22 frame count is 31. 70 millimeters, CSO-5 frame count is 105. On the EREP today the set was Q, one was 7373 219573 three was 7093, four was 6481, five was 8248, six was 7151. The drawer-A configuration is A-1 02 G1-05 83 ZI-01 A-2 was - -

END OF TAPE

CDR Five with 8248, and six with 7151. The drawer A configuration is A102 CIO383 CIO1: A2 is 03 CIO319 MT10. A3 is 04 CIL480 MT01. Floating is 05. Now I've got a couple of malfunctions. We havecounter although the film is moving on 35 millimeter with CX22 and we're working from memory.

CC Pete, Houston. We've had some glitch in the gyros on the C axis, on the Z axis and we want to let you know that we're bringing up the third gyro on the Z axis.

CDR Yeah, we got the alarm here a while ago and it has gone into redundancy.

CC Okay, go ahead.

CDR There were no flight plan deviations today. And we thought today's flight plan was excellent. There are no stowage changes. And let's talk about TV. We did have one problem that came up with the TV during EREP, which we discussed earlier. And we have done some trouble shooting on the TV camera that went out, and I'm afraid we've lost it for good. We shifted the power cable and nothing runs in the camera nor does the monitor get any power. And the color wheel is not stuck. So, I think, unless you come up with something else that we can do, we have researched the subject other than tearing into the camera and it sounds to me like the main power supply has gone out, or possibly it's fused in there and the fuse is gone. Over to you Houston.

CC Roger, Pete we copy that.

CDR That's it for the evening status report. And Houston, we don't have a flight plan yet, is that correct? Hello, Houston.

CC Skylab, Houston. I'm hearing unofficial words that there should be a flight plan up there now.

CDR Well I guess it came in just then. But we didn't have it up. Okay we'll go look.

CC Roger Pete, they say that they sent it up on the last rev. And we have one, well we have about a minute and a half to LOS. And we'll see you over Ascension shortly at about 01:37. That's right that is going to be a med conference over Ascension.

CDR Roger Carl. A couple of things for you Carl you might pass on to the other crew. The S183 very sensitive on the focus to bring onto star field. But once you get them, they are very good.

CC Very good, glad to hear it. I take it that the stars were centering fairly well.

CDR They just set a field Carl and there was nothing in the center of it. I presume they were happy

With the pointings. They gave no --

CC Righto

CDR I say they gave a reference though.

CC Skylab Houston. An urgent question on the TV. When you used the second camera, did you use the same imputstations?

CDR No, we - yes. If there is only one in the MDA, we came down and tested it on another one, which we used the first camera on swap cables. We swapped everything.

CC Okay, we copy that. We're sorry about that camera.

PAO This is Skylab Control. Greenwich mean time 1 hour 31 minutes as the Skylab space station passed through the Vanguard tracking station. Commander Conrad gave the evening report commenting on what the crew ate during the day and what they did not eat. He described the malfunction of one of the two TV cameras onboard, color television. And he said that he thought the way the camera operated that it sounds like the main power supply is gone. Capcom, Dr. Carl Henize responded "we're sorry about that camera." The next pass will be over Ascension in approximately 4 minutes from now, and this is the standard evening medical conference with the Skylab flight surgeon. At GMT 1 hour and 32 minutes, this isSkylab Control.

END OF TAPE

SL-4 [illegible]
Time: 20:36 CDT 10:01:30 GMT
6/2/73

PAO This is Skylab Control 1 Minute - Relay that - This is Skylab Control, 1 hour 36 minutes, Greenwich mean time, Skylab will be coming into acquisition with the Ascension tracking station for a scheduled 6 minute pass at which time the evening medical report will be discussed with the Skylab Flight Surgeon. We'll bring up the line if there's any air to ground communications with the Mission Control Center.

CC Skylab, Houston. We have LOS in about 40 seconds and we'd like to send up a message. We'd like the RM enabled in the Z2 GYRO please.

CDR Say again, Houston.

CC We'd like to have Z2 for control, with RM enabled.

CDR You want RATE GYRO Z2 for control.

CC Roger. With RM enabled.

CDR With redundancy management enabled, okay.

CC And Pete, we're on the backup strapdown, and it looks like we had a hard over on the number 1 Z-Axis GYRO and we have a few seconds to AOS. We'll see you over Guam at 0221.

CDR Say, Houston. You want 2 and 3 or 2 only.

CC Two only.

CDR Roger. Two only.

PLT In other words we're single GYRO. Is that right, Houston.

CC That's right. Affirmative.

CC Z3 is spinning up, but we'll hold it with Z2 until then.

PAO This is Skylab Control at Greenwich mean time 1 hour and 45 minutes, as the Skylab space station leaves the acquisition of the Ascension tracking station. The next acquisition will be at Guam, Guam Island in approximately 35 minutes. This is Skylab Control.

END OF TAPE

SL-II MC-452/1
Time: 21:28 CDT, 10:02:28 GMT
8/1/73

PAO — This is Skylab Control, Greenwich mean time 2 hours 28 minutes. We have acquisition of signal at Guam with Dr. Karl Henize serving as Cap Com. We'll put that line up now.

CC — Skylab, this is Houston. We'll be standing for about 5 minutes over Guam.

CC — Skylab, this is Houston standing by for five minutes over Guam.

SPT — Oh, you got Guam working again, huh?

CC — Yeah, seems to be working okay. I've got a couple of messages for you. First of all, on those Z-axis gyros, we're turning on the third gyro over Guam here and we'll select 2/3, probably over Vanguard. In the meantime, we'd like for you to turn on the star tracker to help evaluate the problem, and we need it on by 02:50. And I have a pad for the star tracker when you can copy.

SPT — Okay, go ahead, Carl.

CC — Star tracker pad, Achernar and we have a zero after the 5,000, day 30 00, day 52 00, inner-gimbal minus 0078, outer gimbal, plus 0840. It's valid 154 0100 210 00.

SPT — Stand by.

SPT — Okay, I understa[illegible] Achernar which is 50,000. Good from day - 30 minutes to d[illegible], 52 was that it Carl?

CC — Day 30 to day 52, Roger.

SPT — Okay, inner gimbal minus 0078, outer is plus 0840 and valid from 0100 today til (garble)

CC — That's correct.

CC — Roger, and note that we need that turned on and acquisitioned by 02:50.

SPT — I understand. We'll get right on it.

CDR — Don't worry, Carl. Tonight's the first night all three of us are going to bed as scheduled on time.

CC — Very good.

CC — And Pilot, on your way back down through the airlock module, we'd like for you to crank down both reg adjust pots to full counter-clockwise. We're hoping that this will help us charge up batteries five, six, and seven. And we have evening questions on the teleprinter as you come by.

PLT — Okay, reg adjust full counter-clockwise down.

CC — Roger.

CC — We're putting on the primary coolant loop and you'll get a C&W.

PLT — I understand.

CC — Pete, we'd like to update you on our thinkin[illegible]

down here about the power panel EVA. We've got about 40 seconds before LOS.

CDR Go ahead.

CC There's a big management meeting scheduled on Monday to evaluate all the work that Rusty's been doing down in the tank and to formulate several options, and we'll send up the results to you for your /aluations. Then we'll Mutually settle on an EVA plan and go from there. There is no EVA planned for Tuesday.

CDR Okay.

CDR (Garble)

CC Roger, we have LOS in a few seconds and we will pick you up over Vanguard, just before you go to sleep at about 02:59.

CDR Okay, see you then.

PAO This is Skylab Control, Greenwich mean time two hours and 32 minutes in the previous pass over Guam. Astronaut Carl Henize discussed with the crew the putting - turning the Star Tracker on. The star tracker is the Apollo telescope's star track of - is designed to provide star position inputs to the Apollo telescope mount digital computer for calculating the roll reference angle in the orbital plane of the vehicle. It also mentioned the gyros. There are three gyros onboard, two of which can provide function of maintaining the stability of the spacecraft. Also the crew was advised of the proposed meeting Monday of NASA management in Huntsville to go over plans for proposed EVA to repair the orbital workshop solar panel. Cap Com Henize did advise the crew that there will be no EVA on Tuesday, however. The crew will begin their sleep period at three hours Greenwich mean time and as they pass over Vanguard mission control center's scheduled good night to the crew in approximately 25 minutes. This is Skylab Control, Greenwich mean time two hours 33 minutes.

END OF TAPE

[illegible]
Time: 21:57 CDT 10:01:57 GMT
6/2/73

PAO This is Skylab Control Greenwich mean time 2 hours 57 minutes, with scheduled acquisition over the Vanguard tracking station as the Skylab space station completes its 280th revolution of the Earth. We anticipate probably the last conversation of this evening with Capcom Dr. Carl Henize and the Skylab crew. We'll hold the line up for that conversation.

CC Skylab, this is Houston standing by for 10 minutes.

CDR Roger and Houston we've got your questions and I have the answers for you. Are you ready to copy.

CC Roger, we're standing by.

CDR Question number 1 on the teleprinter paper there was no difference. Question number 2 as usual we probably hit one of those switches. Bravo Panel 200 both the antenna breakers were closed, but on Panel 204, the right one was in disk rather than command. So I put it back to command. I presume that is what you wanted.

CC We're copying, go ahead.

CDR Okay 3, the first time we cleaned the tape recorder we used the ones that were in the MDA. Today we used the new ones. And this evening after your question, we opened one each and gave them a sniff test and a squeeze test, and we concluded that there is no difference.

CC Okay.

CDR Question number 4, Paul says he can't verify 3-1/2 minutes, he doesn't really know. Question number 5, we went to the 3054 dashed malf procedures and went block 1 block 2 to block 12 to the doors 1 . In the doors 1 we went right down it 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, then to 19 then to 22 then to 25.

CC Very good.

CDR The answer to question number 6 is no. The question to answer number, I got it backwards. The question number 7 the answer is no.

CC Fine. Everybody sounds happy with those answers. At the moment and I have no immediate comments.

CDR Okay, we're pleased to announce that everything was done on time today and we're even going to bed on time today, which makes us feel especially good. We're looking forward to tomorrow.

CC Beautiful, glad to hear you guys are so happy up there. I've got a couple of last minute comments for you. First of all we're going to reset that ACS malfunction light that's on up there, so that we can

monitor it through the night. And also we've had a small debate down here now we should give you that caution on the S052 power problem. The question is in every pad should we give you the 3 switch commands required to safe S052 or should we simply say S052 and then later enable S052? What would you like?

PLT The latter would be fine Carl. We've invented a cue card with the 3 switch commands and we've got it on the console. Paul's suggestion is that every time S052 is used in a building block that before another building block calling for offset pointing you put in the caution warning such as you suggested.

CC Righto. From now on it will be safe S052 and enable S052.

CDR Very good and it is going to come up in red ink, right?

CC Yes sir. We've got all sorts of fancy resources down here to do that sort of thing.

CDR Hey Carl a little word of clarification on starting the 93 altimeter today. I cannot verify that had 3-1/2 minutes of warm up. I don't know how close it was played on the pass but I already threw it out. What I can verify is that it went to standby late.

CC Okay Paul, I think that their question very well. Thank you.

CDR Okay, what do you plan to do about trouble shooting the S054 door? Are you going to have something come up tomorrow and I'd kind of like to see us try and work that one out so we can back to a normal operation. That one bothers me more than, it couldn't have been a worse one to go wrong.

CC The best we can say is we are worried about it too, and we are thinking about what might be done. We'll probably come back to you tomorrow for further discussion.

CDR We can always do a third EVA and go fix the door.

CC Jack Schmitt was down here listening in and said - suggested the same thing.

CDR Great.

CC You guys are so great at fixing things why not go out there and do the job?

CDR I tell you. We just started to do a little experiment. We broke out the first bottle tonight about 20 minutes ago we had a little pitch game going. The three of us and then we turned it into a kind of a football game, off - ricocheting off the walls and throwing a few passes. We're working up a few dynamics and orbital mechanics for the ball.

CC Hey - we've really got a little bat going. But there has been a discussion going as to whether you can really throw the ball straight the first time, did you?

CDR Yeah, it goes straight as an arrow.

CC Amazing, we always thought you'd throw it high without the gravity there.

CDR Nope.

CDR We just had a little discussion about that and over the last 9 days we've been discussing the fact that how we've kind of acclimatized to where we are so rapidly, that none of us gave that a second thought tonight. I mean we weren't even thinking about that when we threw the ball.

CC Beautiful. I've been watching the TV pictures of you guys climbing around and sailing around up there and I think the whole world is thinking that they would like to be Jonathan Livingston Seagull also. It lookd like that's what you guys are doing.

CDR Well, I think the M151 movie will show a lot more, where they show us not goofing off, but just working. And - -

END OF TAPE

CC - also. It looks like what you guys are doing.

CDR Well, I think the M-151 movies will show a lot more where they show us not goofing off but just working and the working is very interesting and also the way everybody whistles around the vehicle and we still get disoriented occasionally when popping through the MDA - through the airlock into the MDA, but after awhile if you start thinking about it you actually roll your flight pad when you leave the bottom of the workshop and head for the MDA and you wind up being at the right direction when you go by the ATM panel if that's where you're headed, that sort of thing. But we still have to think about that one a little bit.

CC Right, that's been one of the things I've been interested in. You sometimes you don't land feet first and land on your head or your back. Doesn't that bruise you a little?

CDR No. we really haven't done too badly on that. We've had a few bumps, scratches, but really very few. We're laughing about some of our spectacular ones that we've had.

CC I bet. Sure would like to be up there having fun with you.

CDR Joe said that TV was live not canned.

CC Good.

CDR Did Melvin Dolan have there his son in the studios before we left?

CC (Laughter)

CDR Well, we hope to do better on the FREP tomorrow. I tell you we had enough big goofins up today that Paul and I thought we didn't do a very good job on that. We're looking to do a better job on it tomorrow.

PLT Do they have any ideas on 191 and 192 yet, Carl?

CC So far as the malfunctions are concerned, somebody's come up with a comment there, but the people down here, even before I came on were sort of feeling very pleased. I heard the comment about how many sites you got today and flight says to say don't feel bad at all. Everybody here is very pleased.

PLT Well, but how about the hardware? I went through the 191 malf procedures today and can kinda - from what I remember of some of the numbers wind up with fact that only radio had logic. Does anybody else feel the same way?

PLT Okay, I don't expect an answer tonight, right now, I guess, Carl. But we just kind of like to be kept

abreast of how work is progressing on our problems, such as we haven't heard a peep out of anybody for 24 hours on our false CWS BUS low problem.

CC — That one's in work and we haven't figured that one out and on these others, we're thinking, but if and when we come up with some firm conclusions we usually send them up to you, but I think the lack of information means that we haven't figured them out yet. We've got 35 seconds to LOS and I guess you guys are going to tuck in now. Have a good night's sleep.

PLT — Good night, Houston.

CC — Good night, Skylab, sleep well.

CDR — Say, what's our first station in the morning? Do we need to set the alarm or are we going to hear your melodious voice?

CC — I hear that the first station is Guam.

CDR — At what time, please.

CDR — Their quizzing the computer to find Guam.

CC — Roger, I have no answer on that one Pete. Good night.

PAO — This is Skylab Control, Greenwich mean time three hours and ten minutes. We've had loss of signal over the Vanguard tracking station with anticipations of picking up further conversations at Ascension in approximately one minute and 40 seconds from now.

END OF TAPE

SL-II MC-433/1
Time: 22:11 CDT, 10/03:11 GMT
6/2/73

CC Skylab, this is Houston over Ascension.
SC Oh, good morning, Houston. Is it 11:00 already?
CC Roger. Your question about alarm clocks and all made us do some work here, and we thought we'd disturb you with one more comment so you could rest easy. We'll be in contact with you over Texas it appears at 11:11, and if you want to sleep until then, you will hear our melodious voices waking you up.
SC Oh, thank you, thank you for your extra 11 minutes. Ahh.
SC And good night.
CC Good night, all.
PAO This is Skylab Control, Greenwich mean time 3 hours 23 minutes, the close of day nine 9 the Skylab crew of Charles Conrad, Dr. Joseph Kerwin, and Paul Weitz. The mission control center has signed off and said good night to the crew over the previous Ascension pass. Brief summary of today's activities had mission controllers and Commander Pete Conrad both describing today as a very good day. Flight Director, Don Puddy, reported earlier this evening everything went just exactly as planned and we met all our objectives. Commander Conrad commenting on the activities o. today said the Flight Plan was excellent. Today's activities were highlighted by a successful EREP pass, which gathered data on numerous Earth resources disciplines over more than 30 task sites between San Francisco, California, and Guadalajara, Mexico. Flight Director, Puddy said we feel like we've got data from the EREP pass. The Skylab crew also deployed the S183 ultraviolet panorama experiment. The objective of which is to measure brightness in the ultraviolet range of more than 1,000 stars and bright galaxies. The crew continued to man the control and display panel of the Apollo telescope mount providing a space eye's view of the Sun. The Skylab space station continues to cool down with the average temperature now at 78.5 degrees Fahrenheit. Power production and power usage are still stable between 3200 and 4500 watts. Sixteen of the charger battery regulator modules are still on line providing the necessary power from the ATM solar panels to the batteries. The crew seemed to be in excellent spirits and Skylab Flight Surgeon, Charles Ross, reported, following the daily medical conference, that the crew was in good physical condition and reports no problems related to their living in space. Tomorrow's activities, day 10 for the Skylab crew, include a third EREP pass and continued monitoring of the ATM telescope mount. Also scheduled for tomorrow, Scientist Pilot,

SL-II MC-455/2
Time: 22:11 CDT; 10:03:11 GMT
6/2/73

Joseph Kerwin, will be the subject of two medical experiments, M092, lower body negative pressure device and M093, vectorcardiogram experiment. The EREP pass scheduled for Sunday will be an 11-minute pass beginning off the coast of Eureka, California; running form northwest to the southeast. The pass will end just off the coast of the Yucatan Peninsula. The ground track will run approximately 2500 miles during which time the EREP sensors will accumulate data over approximately 32 task sites. Included in these sites are the northern California forests; Sierra, Nevada, Feather River Watershed in California; southern California; southern Nevada, Phoenix and Tucson for regional planning purposes; and agriculture and geologic mapping in Mexico. Sunday, June 3rd, will mark a first for Commander Conrad. At 05:00 hours and 17 minutes Greenwich mean time, the Skylab space station with the three crewmen aboard will have amassed 208 hours and 17 minutes. This total, with Commander Conrad, ties him with the space record of American astronauts with James Lovell at 715 hours and 5 minutes. For the Houston area residents, they'll have the opportunity, two opportunities Sunday morning to view the Skylab space station. At 4:35 a.m. the vehicle will pass from south to east and will be visible for 4 minutes and 23 seconds at an elevation of 16 degrees, at a range of 734 miles. A second pass running west from west to northeast at 6:11 a.m. central daylight time, it will be visible for 6 minutes and 14 seconds at an elevation of 32 degrees at a distance of 458 miles. This concludes the reports from the Public Affairs console at Skylab Mission Control Center, Houston. The next report will be at 6:00 a.m., Sunday, June 3rd. This is Skylab Control, Greenwich mean time 3 hours 29 minutes.

END OF TAPE